# Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

## RAILWAYS—STEAM AND ELECTRIC

**Massachusetts**—Bay State St. Ry.—This company has applied to the Council of Wakefield, Mass., for a franchise to improve its lines on Main St. R. S. Goff, Boston, is Vice-Pres. and Gen. Mgr.

**Massachusetts**—Holyoke St. Ry.—This company has applied to the Council of Amherst, Mass., for a franchise to extend its line on South Pleasant St. Louis D. Pellissier, Holyoke, is Vice-Pres., Gen. Mgr. and Pur. Agt.

**Connecticut**—Connecticut Co.—This company plans to reconstruct its line on North Ave., from North Main St. to Trumbull Rd., Bridgeport, Conn. Charles H. Chapman, Bridgeport, is Mgr.

**New York**—According to press reports Charles W. Morse and associates of the Hudson Navigation Co. are organizing a company for the purpose of constructing a railway on Front St., Troy, N. Y.

**New York**—International Ry. Co.—This company plans to extend its lines on Michigan Ave. and Ohio St., Buffalo, N. Y. J. C. Sheldon, Buffalo, is Pur. Agt.

**New Jersey**—Morris County Traction Co.—This company is interested in the organization of a company for the purpose of constructing an electric railway from Landing to Lake Hopatcong, through Port Morris to Netcong, N. J.

**Pennsylvania**—A movement is being agitated for the construction of a railway from Sinking Spring to Ephrata, where it will connect with lines operating to Lancaster and Lebanon.

✚**Pennsylvania**—Shenandoah, Frackville & Pottsville Ry.—This company has awarded the contract to J. B. TREXLER, Reading, for the construction of a railway connecting Frackville with St. Clair, about five miles.

**Pennsylvania**—South Brownsville St. Ry.—This company is being organized for the purpose of constructing an electric railway from Brownsville to South Brownsville, Penn. W. E. Moore, H. L. Mitchell, J. S. Jenks and E. T. Brashears are interested.

**Virginia**—Louisville & Nashville R.R.—This company contemplates the construction of an 18-mile line from Blackley, Va., to the headwaters of Rockhouse Creek. W. H. Courtenay, Louisville, Ky., is Ch. Engr.

**Virginia**—York & Rappahannock River Ry.—This company has applied for a charter to construct a railway from West Point to Urbanna, Va., about 17 miles. R. S. Bristow, Urbanna, is Pres., F. H. Sprague, West Point, Vice-Pres. and W. H. Ryland, Urbanna, Secy.

**West Virginia**—Fairmont & Helen's Run R.R.—This company has been incorporated to construct a railway from the mines of the Consolidated Coal Co. on Helen's Run to the tracks of the Baltimore & Ohio R.R., near Fairmont, W. Va. The incorporators are: Carl R. Gray, M. C. Byers, C. H. Porter and H. R. Pratt.

✚**West Virginia**—Ohio Valley Electric Ry.—The contract has been awarded by this company to the BRUBAKER CONSTRUCTION CO. for the construction of an extension to the line on 12th Ave., Huntington.

**Georgia**—Pelham & Havana R.R.—Surveys have been completed by this company for the extension of its line from Darsey, Ga., to Havana, Fla., about five miles. J. M. Wilkinson, Valdosta, is Pres. Noted June 22.

**Alabama**—The Alabama Power Co. contemplates the extension of the street car lines of the Anniston Electric & Gas Co., which it recently acquired, from Anniston to Blue Mountain. A. L. Kenyon, Anniston, is Mgr.

**Tennessee**—Nashville, Chattanooga & St. Louis Ry.—Plans are being considered by this company for the construction of a three-mile extension from Tottys to Valley, Tenn. H. McDonald, Nashville, is Ch. Engr.

**Ohio**—Cleveland Ry.—This company will extend its line on Euclid Ave. from 22nd to 40th St., Cleveland, Ohio. George L. Radcliffe, Cleveland, is Gen. Mgr.

**Ohio**—East Village & Harbor Traction Co.—Surveys are being made by this company for the construction of a railway in Ashtabula.

**Ohio**—Lorain, Ashland & Southern R.R. — According to press reports this company is making preliminary arrangements for the extension of its line from Custaloga to Big Prairie, Ohio. John Lake, Big Prairie, is interested. Noted June 10.

**Indiana**—Ft. Wayne & Northern Indiana Traction Co.—Preliminary arrangements are being made by this company for the reconstruction of its line on State Blvd., Ft. Wayne, Ind. Samuel W. Greenland, Ft. Wayne, is Gen. Mgr. and Pur. Agt. Noted May 20.

**Michigan**—Detroit, Pontiac & Owosso Ry.—This company has been granted a franchise to construct a railway in Pontiac, Mich. This is part of a proposed railway which will connect Owosso and Detroit. George H. Lau, Detroit, is interested. Noted June 24.

**Iowa**—The Des Moines & Southern R.R.—This company will soon start work on the construction of a five-mile railway from Swanwood Junction to Des Moines. C. H. Crooks is Gen. Mgr.

**Minnesota**—Duluth St. Ry.—Plans are being prepared by this company for the extension of its line from West Duluth to New Duluth, Minn. Herbert Warren is Gen. Mgr.

**Arkansas**—A. C. Veach, Gravette, Ark., is interested in the construction of an electric railway from Melbourne, Ark., to a connection with the St. Louis, Iron Mountain & Southern R.R., about 12 miles.

**Texas**—Plans are being considered for merging the properties of the Texas Traction Co. and the Southern Traction Co. It is planned to extend the line of the latter company from Waco to San Antonio.

**Texas**—Corpus Christi Traction Co.—This company, recently incorporated, will construct a system of interurban electric railways to radiate out of Corpus Christi.

**Oklahoma**—Plans are being prepared for the construction of an electric railway from Henryetta to Denver, about three miles. Z. T. Sweeney, Columbus, Ind., is interested.

**Oregon**—At a recent election held at Grants Pass the citizens voted in favor of ratifying the contract by which Twohy Bros., Portland, will take over ten miles of municipal constructed railroad and continue the line to the coast.

✚**Oregon**—St. Helens Lumber Co.—It is reported that this company has awarded the contract for the construction of four miles of railway to the ELLIOTT CONSTRUCTION CO., Portland.

**Oregon**—Southern Oregon Traction Co.—This company has purchased the steam railway from Medford to Jacksonville, Ore., and will electrify it. S. S. Bullis, Medford, is interested.

**California**—According to press reports surveys are being made for the construction of a railway from Eureka, Calif., to Klamath Falls, Ore.

**British Columbia**—Surveys have been made for the construction of a railway from Kittamaat Arm, B. C. to Prince Albert by way of Ft. St. John and Peace River Landing. D. A. Thomas, Wales, England, is interested.

## LIGHT, HEAT AND POWER

**Dedham, Mass.**—(Official)—Bids will be received by the Superintendent of Schools, Town Hall, until 4 p.m., Aug. 3, for the installation of a heating and ventilating system in the new high school building. Samuel H. Capen is Chn., High School Bldg. Com.

✚**Buffalo, N. Y.**—The contract for the installation of a heating system in the new City Hospital has been awarded to FITZPATRICK & HOEPNER, Cleveland, Ohio, at $67,929; the contract for the electrical work was awarded to the BISON ELECTRIC CO., Buffalo, at $17,328. See item under "Buildings."

**Ellisburg, N. Y.**—Frank E. Hamm will construct an electric-light plant and system in Ellisburg.

**La Fargeville, N. Y.**—The La Fargeville Electric Light Co. has been granted permission by the Public Service Commission to construct electric-light plants in the towns of Theresa and Orleans. Noted July 22.

**Perry, N. Y.**—The Perry Electric Light Co. plans to construct six miles of transmission line between Perry and Silver Springs, also nine miles between Perry and Warsaw.

**Bloomfield, N. J.**—The Westinghouse Lamp Co. plans to construct an addition to its power house in the Watsessing Section.

✚**Newark, N. J.**—The Public Service Electric Co. has awarded the contract for the construction of smoke flues at its new power plant at Point-No-Point to the STEVENS-AYLESWORTH CO., 90 West St., New York, N. Y. The estimated cost is $12,250.

**Leonardtown, Md.**—The construction of a municipal electric-light plant is being considered by the City Commissioners.

**Guntersville, Ala.**—The construction of a steam driven power plant in Guntersville is contemplated by the Alabama Power Co. of Birmingham. The company also plans to build a transmission line between Gadsen and Guntersville to furnish electricity to Albertville, Boaz and other towns.

**Hazard, Ky.**—It is reported that E. C. Lilly, Bluefield, Va., and D. Terpstra, Norton, Va., are considering plans for the construction of an electric generating plant to supply electricity to the coal mines in the Hazard field.

**Cincinnati, Ohio**—Bids will be received until noon, Aug. 3, by Philip Fosdick, Dir. of Pub. Ser., City Hall, for the installation of a heating and ventilating system in the public bath house at Spring and East 13th St.

✚**Madison, Wis.**—The Madison Gas & Electric Co. has awarded the contract for the construction of a brick power transmission station on Blunt St. to T. C. McCARTHY. The estimated cost is $15,000.

**Milwaukee, Wis.**—Work will soon be started on the construction of a power plant on Greenfield St. for the Milwaukee Coke & Gas Co. The estimated cost is $12,000.

**Bancroft, Iowa**—At a recent election the citizens voted in favor of issuing $10,000 in bonds. The proceeds will be used for the construction of a municipal electric-light plant.

**Nevada, Iowa**—A 13,500-volt, 3-phase transmission line will be constructed from Nevada into Colorado by the Iowa Ry. & Lighting Co. They will also build a sub-station and distribution system in Colorado.

✚**Thompson, Iowa**—The contract for the construction of an electric-light plant has been awarded to the STRONG ELECTRIC CO., Des Moines.

**Hardwick, Minn.**—At a recent election the citizens voted in favor of issuing $5000 in bonds, the proceeds of which will be used for improving the village power plant.

**Hastings, Minn.**—Bids will be received by P. A. Hoffman, County Audr., until 11 a.m., Aug. 16, for furnishing two Kewanee locomotive fire box low pressure steam heating boilers or equal thereof, to be installed in the courthouse.

**Rochester, Minn.**—Bids will soon be received for the construction of a new municipal electric-light plant. The estimated cost is $110,000. A. F. Wright is City Clk.

**Attica, Kan.**—Plans are being prepared for the construction of an electric-light plant. The estimated cost is $15,000. F. H. Kelburn, Woodward, Okla., is Engr.

**Haviland, Kan.**—The citizens have voted in favor of issuing $7000 in bonds, the proceeds of which will be used for the installation of a municipal electric-light plant.

**Parker, Kan.**—The citizens have voted to issue $5000 in bonds, the proceeds of which will be used for the installation of a municipal-electric light plant. C. O. Conrad is City Clk.

**Sharon Springs, Kan.**—Plans are being prepared for remodeling the lighting plant. The estimated cost is $10,000. W. E. Hulse & Co., Hutchinson, is Engr.

**Osceola, Neb.**—It is reported that the Osceola & Shelby Electric-Light, Heat & Power Co. plans to construct six miles of transmission lines and to purchase additional electrical appliances.

**Billings, Mont.**—The Montana Power Co. will construct an addition to its plant at an estimated cost of $20,000.

**Campbell, Mo.**—It is reported that the Campbell Public Service Co. plans to construct an addition to its power house and to purchase a new boiler and a Corliss steam or oil engine.

**Brandon, Tex.**—The Texas Light & Power Co. of Dallas will install an electric-lighting system in Brandon. The transmission line will be extended from Milford to Brandon.

**Seguin, Tex.**—Bids will be received until Aug. 10 by the Seguin Electric-Light & Power Co. for furnishing power plant equipment, including water wheels, transmission machinery, generator and switchboards. Owen A. Gafford is Mgr.

**Grants Pass, Ore.**—The citizens have voted in favor of granting a franchise to the Rogue River Public Service Corporation for the construction of a light and power plant.

**Portland, Ore.**—Bids will be received by R. H. Thomas, Clk., 401 Court House, until 4 p.m., Aug. 5, for the installation of a heating and ventilating system in the Franklin High School.

**Exeter, Ont.**—The rate-payers have voted to appropriate $20,000 for the installation of a hydro-electric system.

**Otterville, Ont.**—The Town Council is considering the installation of a hydro-electric system.

**Petrolia, Ont.**—An appropriation of $35,000 has been voted by the rate-payers for the installation of a hydro-electric plant and distribution system. Noted June 10.

## BRIDGES

**Montpelier, Vt.**—Bids will be received until 7:30 p.m., Aug. 2, by J. M. Bontwell, Mayor, for the construction of a steel girder bridge with a concrete floor at State St. Noted July 8.

✚**Salem, Mass.**—The Salem Rebuilding Commission has awarded the contract for the construction of a culvert and retaining wall to PETER BOMPIANI & CO., 14 Federal St., Boston, at $8881.

✚**Hartford, Conn.**—The Board of Contract and Supply has awarded the contract for the construction of a reinforced-concrete beam bridge on Newfield Ave. to CHARLES A. SIBLEY, 902 Chapel St., New Haven, at $6726.

**Albany, N. Y.**—The Delaware & Hudson Co. has submitted plans for the construction of a bridge over Island Creek to the Public Service Commission. F. Pond is Bridge Engr. Noted June 24.

**Cheektowga, N. Y.**—(Forks post office)—The Public Service Commission, Buffalo, has appropriated $100,000 for the construction of a viaduct at Harlem Ave. Devoe P. Hodson is Comr.

**Olean, N. Y.**—It is reported that the city will construct a bridge over the Allegany River to connect Olean with South Olean. H. E. Bunce is City Engr.

**Chatham, N. J.**—Philip A. Hickey, Somerville, at $7333, submitted the lowest bid for the construction of a new bridge. He will probably be awarded the contract.

✚**New Brunswick, N. J.**—(Official)—The Board of Chosen Freeholders of Middlesex County has awarded the contract for the construction of a reinforced-concrete bridge over the South River on the South Amboy-New Brunswick Rd. to the GENERAL CONTRACTING & ENGINEERING CO., 29 Rector St., New York, N. Y., at $66,714. Noted July 8 and 22.

✚**Pine Brook, N. J.**—The Board of Chosen Freeholders of Morris and Essex Counties has awarded the contract for the construction of a bridge over the Passaic River at Pine Brook to the AVERILL-MATTHEWS CO., Clinton St., Newark, at $39,860. Noted July 8 and 22.

**Trenton, N. J.**—Bids will be received by the Board of Chosen Freeholders of Mercer County until 2:30 p.m., Aug. 3, for the following bridge work: Construction of a steel truss bridge with reinforced-concrete retaining walls over Doctor's Creek, Hamilton Township; reinforced-concrete bridge over Beedens Brook, Rosedale-Mt. Rose Rd.; bridge over Assunpink Creek, crossing Nottingham Way. Theodore Tobish is County Engr. Noted May 27.

★**Media, Penn.**—(Official)—Bids will be received until 10 a.m., Aug. 2, by the Commissioners of Delaware County for the construction of a reinforced-concrete bridge on Glenolden Ave. over Muckinapatus Creek, Glenolden Borough and Darby Township.

★**Philadelphia, Penn.**—(Official)—Bids will be received until noon, Aug. 2, by M. L. Cooke, Dir. Dept. of Pub. Works, City Hall, for the construction of a bridge on line of Cambria and A. St., and one on line of Holme Ave. over Pennypacker Creek. Bids will also be received on Aug. 4 for a bridge on line of Whitby Ave. over Philadelphia & Baltimore Washington R.R. and one on Front St. over the Municipal Hospital Drive.

✚**Pittsburgh, Penn.**—The County Commissioners have awarded the contracts for bridge work as follows: Construction of reinforced-concrete arch in Richland Township to JOHN F. HOWLEY & CO., 237 Fourth Ave., Pittsburgh, at $5887; construction of reinforced-concrete arch in Moon Township and extension of Arch-Bridge No. 1, Kilbuck Run, Glenfield Borough to the ADAM LAIDLOW CO., Bessemer Bldg., Pittsburgh, at $9547; diversion of Pine Creek, eliminating County Bridges Nos. 17 and 18 in Shaler Township to J. ROBNER BARR, 237 Fourth Ave., Pittsburgh, at $11,290. J. G. Chalfont, Room 308, Courthouse, is County Engr. Noted July 8.

**Reading, Penn.**—E. B. Ulrich, City Engr., has approved the plans submitted by the Philadelphia & Reading Ry. for the rebuilding of the three bridges over the Lebanon Valley Railroad tracks at Center Ave. The estimated cost is $80,000. C. Dillenback, Reading, is Engr. of Bridges and Bldgs.

**Sharon, Penn.**—It is reported that the contract will soon be awarded for the construction of a bridge over the Shenango River at State St. for the county, city and the street railway company. The estimated cost is $40,000.

✚**West Milton, Penn.**—The Philadelphia & Reading Ry. has awarded the contract for the construction of the substructure and masonry of a new bridge to replace the old structure to the ROBERT GRACE CONTRACTING CO., Pittsburgh. The estimated cost is $300,000. S. T. Wagner, Philadelphia, is Ch. Engr. Noted July 15.

**Wilmington, Del.**—Plans have been submitted to the War Department for the construction of a lift pattern bridge, 300 ft. long, across Lewes Canal connecting Delaware Bay with Rehoboth Bay. This bridge will carry the tracks of the Delaware, Maryland & Virginia R.R. Co. H. R. Leonard, Philadelphia, Penn., is Bridge Engr.

**Leesburg, Va.**—(Official)—Bids will be received until noon, Aug. 5, at the Clerk's Office for the construction of two reinforced-concrete bridges, one over Limestone Creek and the other over James Creek. The plans call for a 62-ft. 6-in. bridge with two 30-ft. spans over Limestone Creek and a 45-ft. bridge with two 20-ft. spans over James Creek. G. P. Coleman, Richmond, is State Highway Comr.

**Radford, Va.**—The construction of a highway bridge across the New River is contemplated by the city and the County Commissioners. William Ingles is Chn. of Com.

**Grimesland, N. C.**—Bids will be received until Aug. 2 by the Commissioners of Pitt County for the construction of a reinforced-concrete bridge across Chicod Creek near Grimesland.

**Leesburg, Ga.**—At a recent election the citizens voted in favor of the question of issuing $7500 in bonds, the proceeds of which will be used for the construction of a bridge.

**Sardis, Miss.**—Bids will be received by R. W. Draper, County Clk., until Aug. 2, for the construction of two steel bridges and one trestle with concrete abutments.

**Lake Charles, La.**—Bids will be received until 11 a.m., Aug. 3, by E. C. House, Clk. of Police Jury, for the construction of a steel draw bridge over Bayou Choupique on the Lockport-Ged Highway. F. H. Frankland is Bridge Engr.

**Chattanooga, Tenn.**—The Hamilton County Court has authorized a bond issue of $400,000 for the construction of an additional bridge across the Tennessee River.

**Covington, Tenn.**—An appropriation of $20,000 has been voted by the Tipton County Quarterly Court toward the construction of a bridge across Big Hatchie River. Lauderdale County will also contribute $20,000 toward the cost.

**Dandridge, Tenn.**—The Commissioners of Jefferson County Court have passed an ordinance appropriating $5000 for the construction of a bridge across the Houston River between Jefferson and Grainger Counties. The estimated cost is $15,000.

**Cleveland, Ohio**—A resolution authorizing a bond issue of $100,000 to provide for the engineering surveys and options on the property for the proposed bridge over the Cuyahoga River to connect Loraine Ave. either with Huron Road or Bolivar Ave. has been passed by the County Commissioners. The estimated cost is $5,000,000.

✚**Ironton, Ohio**—The County Commissioners have awarded the contract for the construction of a bridge across Ice Creek at Coal Grove to the CAPITAL BRIDGE CO., at $19,112.

✚**Lebanon, Ohio**—The Board of Commissioners of Warren County has awarded the contract for the construction of the superstructure of a high truss steel bridge over Caesar's Creek in Massie Township to the OREGONIA BRIDGE CO., Lebanon, at $3865; the contract for the substructure was awarded to G. C. HARDEN, Middletown, at $2600, and the contract for the construction of a bridge over Turtle Creek at West St. in the Village of Lebanon to the OREGONIA BRIDGE CO., at $1619. Noted June 24.

**Mt. Gilead, Ohio**—Bids will be received until 11 a.m., Aug. 29, by C. O. Huggins, Audr., Bd. of Commissioners of Morrow County, for the construction of the 124-ft. Beatty Bridge in Cardington Township.

✚**Indianapolis, Ind.**—The Board of Public Works has awarded the contract for the construction of two additional spans to the West Washington St. Bridge over the White River to the NATIONAL CONCRETE CO., Indianapolis, at $110,000. Noted July 8 and 22.

✚**Sullivan, Ind.**—The contracts for the construction of nine bridges have been awarded by the County Commissioners as follows: Construction of two steel bridges to the VINCENNES BRIDGE CO., Vincennes; construction of one steel

bridge to the MONTGOMERY PARKER CO., Hatfield; construction of six concrete bridges to GEORGE SOLLER, Princeton. Noted May 20.

**Paris, Ill.**—Bids will be received by A. Allen Brubaker, City Clk., until 2 p.m., Aug. 2, for the construction of a 60-ft. reinforced-concrete, steel plate girder reservoir bridge on the Chicago Rd. at Sugar Creek. K. J. Barr is County Supt. of Highways.

**+Rockford, Ill.**—(Official)—G. HOHN, Rockford, has been awarded the contract for the construction of three bridges as follows: Kishwaukee St. Bridge, $8870; 10th St. Bridge, $3590; 11th St. Bridge, $3540. Edwin Main is City Engr. Noted May 13 and June 24.

**Green Bay, Wis.**—At a recent election the citizens voted against the question of issuing $5000 in bonds, the proceeds of which was to have been used for the construction of a bridge over the East River at Pleasant St.

**+Grant, Iowa**—The contract for the construction of 19 new bridges and the repair of 11 old ones has been awarded to the STANDARD BRIDGE CO., Omaha, Neb.

**+Griswold, Iowa**—The contract for the construction of a steel bridge has been awarded to the LANA CONSTRUCTION CO., Council Bluffs, at $4547.

**+Radcliffe, Iowa**—N. M. STARK CO., Des Moines, at $11,777, has been awarded the contract for the construction of eight bridges by the County Board of Supervisors.

**Waukon, Iowa**—Bids will be received until noon, Aug. 3, for the construction of 13 reinforced-concrete bridges, culverts and abutments. William F. Shafer is County Audr.

**Iola, Kan.**—Bids will soon be received for the construction of a bridge across the Neosha River near Iola. The estimated cost is $20,000. W. S. Gearhart is Engr.

**Topeka, Kan.**—It is reported that a new bridge will be constructed across Butcher Creek at 21st and Madison St. The estimated cost is $5500. W. G. Tandy is Comr.

**Wichita, Kan.**—Bids will be received until Aug. 8 by H. M. Barrett, County Clk., for the construction of a reinforced-concrete bridge over the drainage canal on 21st St. The estimated cost is $8000. E. V. Moore, Wichita, is Engr. Noted July 15.

**Minden, Neb.**—A resolution has been passed by the County Supervisors asking the state to aid in the construction of a bridge across the Platte River between Buffalo and Kearney Counties. The estimated cost is $65,000, to be borne by the two counties and the state.

**St. Paul, Neb.**—The State has been asked by the County Commissioners to proceed with the construction of an 800-ft. bridge across Middle Loup River. The estimated cost is $50,000, half of which will be borne by the county. A. Johnson, Lincoln, is State Engr.

**Aberdeen, S. D.**—The construction of a bridge across Chester Creek is being considered by the city. The estimated cost is $32,000.

**Florence, Mont.**—Bids will be received until Aug. 3 by the Board of County Commissioners, Hamilton, for the construction of a bridge across the Bitter Root River. The plans call for two designs, a 220-ft. pin connected steel truss bridge with concrete abutments and a 120-ft. two riveted steel span bridge with concrete abutments and two tubular steel piers for center piers.

**Houston, Tex.**—Press reports state that the city will construct three reinforced-concrete bridges, one on Telephone Rd. and two on Humble St.

**+Lipscomb, Tex.**—The County Commissioners have awarded the contract for the construction of two steel bridges across Wolfe Creek to AUSTIN BROS., Dallas, at $10,800.

**+Longview, Tex.**—The BLODGETT CONSTRUCTION CO., Shreveport, La., has been awarded the contract for the construction of a 120-ft. steel bridge across the Sabine River.

**+Port Sullivan, Tex.**—The Commissioners Court of Milam and Robertson Counties, Hearne, has awarded the contract for rebuilding the bridge across the Brazos River at Port Sullivan to the VINCENNES BRIDGE CO., Vincennes, Ind., at $13,490.

**+Runge, Tex.**—The Commissioners of Karnes County have awarded the contract for the construction of 37 bridges and 63 corrugated iron culverts to the ALAMO CONSTRUCTION CO., San Antonio, at $35,750. L. L. Yates is Engr.

**Antlers, Okla.**—Bids will be received by the County Clerk until 5 p.m., Aug. 3, for the construction of five steel bridges across the Kiomichi River. Charles E. Hagerty, Muskogee, is Engr.

**Tulsa, Okla.**—Bids will be received until Sept. 1 for the construction of a bridge across the Arkansas River. The estimated cost is $200,000. R. R. Hughes is County Engr. Noted June 24 and July 22.

**Silver City, N. M.**—The construction of a bridge over the Gila River at Old Fort West is contemplated by the County Commissioners. The estimated cost is $20,000. F. L. Cox is County Engr.

**Winkelman, Ariz.**—At a recent election the citizens voted in favor of the question of issuing $150,000 in bonds, the proceeds of which will be used for the construction of a bridge across the Gila River near Kelvin.

**+Colfax, Wash.**—The County Commissioners have awarded the contracts for the construction of four bridges as follows: A 60-ft. span at Pullman to CHARLES G. HUBER, Seattle, at $3769; a 40-ft. span at Clinton to W. A. LAUDER, Spokane, at $1745; a 25-ft. span at Garfield and a 30-ft. span at Farmington to H. C. MALLOTT, Seattle, at $1672 and $1536 respectively. Noted June 24.

**Marblemount, Wash.**—A. L. Strong, County Engr., is preparing preliminary plans for the construction of a 200-ft. bridge over Diasbud Creek.

**Olympia, Wash.**—Bids will be received until Aug. 9 by William A. Roy, State Highway Comr., for the construction of a steel riveted truss bridge, 195 ft. long, over the Snohomish River on the Olympic Highway in Mason County.

**+Seattle, Wash.**—The Commissioners of King County have awarded the contract for the construction of the Fall City Bridge to M. P. ZINDORF, Alaska Bldg., Seattle, at $27,522. A. P. Denton is County Engr. Noted July 1.

**Seattle, Wash.**—The Commissioners of King County have rejected all bids for the construction of the Stossel Bridge. Noted June 17 and July 15.

**Seattle, Wash.**—(Official)—The lowest bids received by the Board of Public Works for constructing the Lake Washington Canal bridges were as follows: 15th Ave. N. W. substructure, Booker, Kill & Whipple, Central Bldg., Seattle, $92,145; Superstructure Beers Building Co., Pitlock Bldg., Portland, Ore., $146,049; Fremont Ave. substructure, Pacific States Construction Co., Burke Bldg., Seattle, $112,651; superstructure, Beers Bldg. Co., $154,601. There were 21 bids submitted for the work. Noted June 17 and July 1.

**+Tacoma, Wash.**—(Official)—Bids were received July 7 by the State Highway Board, Olympia, for the construction of a reinforced-concrete bridge over the Mashell River, Pierce County, as follows: (a) Design No. 1, (b) Design No. 2, McRae Bros., Seattle, (a) $14,532, (b) $15,340; H. C. MALOTTE, Seattle, (a) $8850, (b) $7850 (awarded contract); Zindorf & Tiderol, Seattle, (a) $10,628, (b) $9836.76; Ferch & Gass, Seattle, (a) $12,700; Nettleton-Bruce-Eschbach Co., Seattle, (a) $12,200, (b) $12,700; Yelverton & Wolf, Olympia, (a) $10,285.61, (b) $10,655.17; Graff & Sheldon, Tacoma, (a) $8497, (b) $8300; Howard S. Wright, Everett, (a) $11,971, (b) $11,459; Pacific States Construction Co., Seattle, (a) $13,930, (b) $15,015; Charles G. Huber, Seattle, (a) $11,000, (b) $10,990; J. Hanson, Tacoma, (a) $10,781, (b) $11,661; Erle & Charles W. Maxham, Tacoma, (a) $11,750, (b) $11,900. Noted June 24.

**+Tillamook, Ore.**—The City Council has awarded the contract for the construction of a steel draw bridge across Hoquarton Slough to the FEENEY-BREMER CO., at $6650. Noted July 8.

**El Monte, Calif.**—Bids will be received until Aug. 2 by the Board of Supervisors of Los Angeles County for the construction of a steel girder bridge with concrete abutments and steel cylinder concrete piers across the San Gabriel River at El Monte. The estimated cost is $135,000.

**Igo, Calif.**—The County Supervisors have rejected all bids for the construction of a steel bridge over Clear Creek, and have decided to call for plans for a bridge of reinforced concrete.

**Kennett, Calif.**—(Official)—Bids will be received until Aug. 21 by S. N. Witherau, Clk., Bd. of Supervisors of Shasta County, Redding, for the construction of a wood and steel bridge with three 200-ft. spans and three 300-ft. spans across the Sacramento River at Kennett. The estimated cost is $20,000. C. R. Wiezel is City Engr. Noted June 24.

**+Marysville, Calif.**—(Official)—The Board of Supervisors of Yuba County has awarded the contract for the construction of three reinforced-concrete bridges on line of the State Highway across Best Slough, Dry Creek and Grasshopper Creek to JENKINS & WELLS, Sacramento, at $14,500. L. B. Cook is County Engr. Noted July 15.

**Modesto, Calif.**—Plans have been approved by the Board of Supervisors of Stanislaus County and bids will soon be received for the construction of a bridge across the Tuolumne River about eight miles east of Waterford. E. H. Annear, Modesto, is County Engr.

**+Oakdale, Calif.**—The Board of Supervisors of Stanislaus County has awarded the contract for the construction of a steel bridge across Wildcat Cañon, between Oakdale and Knight's Ferry, to the ROSS CONSTRUCTION CO., at $10,000.

**+San Jose, Calif.**—The Board of Supervisors of Santa Clara County has awarded the contracts for the construction of bridges as follows: Bridge over Campbell Creek on the Homestead Rd. to M. E. KILCOURSE, San Jose, at $4387; bridges over San Tomas, Calabasas and Permenente Creeks to JOHN DOYLE, San Jose, at $5730. Noted July 1.

**+St. Boniface, Man.**—The City Council has awarded the contract for the construction of the superstructure of the Provencher Ave. Bridge to the DOMINION BRIDGE CO., Lachine Locks, Que., at $264,000.

## WATER SUPPLY—IRRIGATION

**Pittsfield, Mass.**—It is reported that the General Electric Co. has completed plans for the construction of a reservoir at Perinne Ave. The estimated cost is $110,000. Noted Aug. 27.

**Centerville, N. Y.**—Bonds for $35,000 have been sold. The proceeds will be used for the construction of a water system.

**LeRoy, N. Y.**—At a recent election the citizens voted in favor of the question of issuing $15,000 in bonds. The proceeds will be used for the extension of the water system. Noted Mar. 25 and June 17.

**Lockport, N. Y.**—Bids will be received by William G. Spalding, Clk., Bd. of Water Comrs., until Aug. 5 for the construction of a 10-in. and 12-in. water pipe in Market and Mill St. Noted June 24 and July 1.

**+Rochester, N. Y.**—The Board of Contract and Supply has awarded the contract for laying water mains to W. E. KINNEY, Rochester, at $10,556.

**★Wellsville, N. Y.**—(Official)—Bids will be received until noon, Aug. 25, by the Board of Water and Light Commissioners, for the construction of improvements to the water system. Plans may be seen at the office of the Board at Wellsville or at the office of Charles C. Hopkins, Engr., Rochester. F. M. Leonard is Acting Clk.

**Camden, N. J.**—Plans have been prepared for the construction of an auxiliary pumping station at Morris Station. The plans provide for a building in which will be installed two pumps each with a daily capacity of 5,000,000 gal. Noted May 6.

**Philadelphia, Penn.**—An expenditure of $30,000 for the improvement of the water supply of South Philadelphia is contemplated.

**Castlewood, Va.**—According to press reports the Castlewood Water Co. has been incorporated with a capital of $5000 by J. W. Huff, Pres. and R. S. Gose, Secy., Treas.

**✚Covington, Va.**—The city has awarded the contract for the construction of a 2,000,000-gal. concrete reservoir and improvements to the water system to BEARDSLEY, DONGAN & BEARDSLEY, McBain Bldg., Roanoke, at $12,021. Harry Stevens, Washington, D. C., is Engr. Noted June 10 and 24.

**Harrisonburg, Va.**—Bonds for $60,000 have been appropriated by the Town Council. The proceeds will be used for the construction of a filtration plant. Noted Jan. 21.

**Keyser, W. Va.**—At a recent election the citizens voted in favor of issuing $35,000 in bonds. The proceeds will be used for the construction of a water system. Leander Schaidt, Cumberland, Md., is Engr. Noted June 3.

**Boston, Ga.**—The water system will be extended. W. Hopson Goodloe, Macon, is Engr.

**Coolidge, Fla.**—An election will be held Aug. 16 to vote on the question of issuing $4500 in bonds, the proceeds of which will be used for the construction of a water system. G. T. Knight is Mayor.

**Palmetto, Fla.**—An election will be held Aug. 10 to vote on the question of issuing $16,000 in bonds. The proceeds will be used for the construction of water and sewer systems. Noted Feb. 25.

**Tutwiler, Miss.**—The city plans to issue $15,000 in bonds. The proceeds will be used for the construction of water and sewer systems.

**Bellbuckle, Tenn.**—At a recent election the citizens voted against the question of issuing bonds for $25,000, the proceeds of which was to have been used for the construction of a water system. Noted June 24.

**✚Covington, Ky.**—The contract for furnishing the city with 2000 tons of 24-in. c.-i. pipe for the construction of the emergency main from the Ft. Thomas reservoir to Covington has been awarded to the UNITED STATES CAST IRON PIPE & FOUNDRY CO., Addyston, Ohio, at $92,000.

**East View, Ohio**—(Warrensville post office)—Bids will be received until noon, Aug. 12, by Charles E. Burger, Clk., for the purchase of $7556 in bonds. The proceeds will be used for laying 6-in. water mains in Elm and Allen St.

**Hamilton, Ohio**—Bonds for $10,000 have been authorized by the Public Service Commission. The proceeds will be used for the installation of three new 10-in. wells and intake for the water works system. Joseph B. Meyers is Dir. of Pub. Ser.

**Maumee, Ohio**—Bids will be received by Thomas N. Dowling, Clk., until 7.30 p.m., Aug. 23, for the purchase of $56,000 in bonds. The proceeds will be used for the construction of a water works system. Noted Aug. 6 and 13.

**Redkey, Ind.**—The Redkey Water Works Co. will install a water works system. Bonds for $10,000 have been sold for this purpose. Noted Apr. 15.

**Manitowoc, Wis.**—The city has rejected all bids for the construction of water mains and has decided to do the work by day labor.

**Milwaukee, Wis.**—Bids will be received by the Department of Public Works until 10:30 a.m., Aug. 3, for laying c.-i. water pipe and setting hydrants on Florida St.

**Murphysboro, Ill.**—(Official)—The Murphysboro Water Works, Electric & Gas Light Co. has engaged Edward Flad & Co., Consult. Engr., De Menil Bldg., St. Louis, Mo., in connection with the installation of a filtration plant for the water system.

**Wittenberg, Wis.**—Bonds for $12,000 have been sold by the city. The proceeds will be used for the installation of a municipal water works system. Noted Apr. 8 and May 27.

**Cresco, Iowa**—Bonds for $10,000 have been sold by the Commissioners of Howard County. The proceeds will be used for the construction of a water system.

**Denison, Iowa**—(Official)—The date for receiving bids for drilling an artesian well has been extended to Aug. 12. All bids received on July 22 were rejected. E. F. Tucker is City Clk. Noted July 15.

**Kingsley, Iowa**—Bids will be received by W. R. Payne, Town Clk., until Aug. 5 for a 100,000-gal. water tank.

**Marshalltown, Iowa**—The Lynchburg Foundry Co., Lynchburg, Va., was the lowest bidder for furnishing the city with water pipe, at $23.85 per ton for 6-, 8- and 12-in. pipe and $25.85 per ton for 4-in. pipe.

**Sidney, Iowa**—At a recent election the citizens voted in favor of the question of issuing $20,000 in bonds. The proceeds will be used for the extension of the water system.

**Attica, Kan.**—Plans are being prepared for the construction of a water system. The estimated cost is $15,000. F. H. Kilburn is Engr.

**✚Larned, Kan.**—(Official)—The contract for making improvements to the water system, including motor-driven pumps, test boilers, steam and exhaust piping and auxiliary boiler room equipment, and constructing a stack has been awarded to the MERKLE-HEINES MACHINERY CO., at $26,-170. Noted July 15.

**✚Pratt, Kan.**—The contract for the extension of the municipal water system has been awarded to BASH & JAMES, Joplin, Mo., at $31,980. Other bidders were: English Tool & Supply Co., Kansas City, Mo., $27,000 (incomplete bid); Commercial Construction Co., Kansas City, Mo., $32,990; Merkle-Hines Co., Kansas City, Mo., $30,500. The E. T. Archer Co., New England Bldg., Kansas City, Mo., is Engr. Noted July 24.

**Norfolk, Neb.**—(Official)—An election will be held Aug. 2 to vote on the question of issuing $10,000 in bonds, the proceeds of which will be used for the extension of the water system. Noted July 15.

**Veblen, S. D.**—Press reports state that the town contemplates holding an election to vote on the question of issuing $16,000 in bonds. The proceeds will be used for the construction of a water system.

**Watertown, S. D.**—Bids will be received by the City Auditor until Aug. 2 for furnishing c.-i. pipe and castings. F. W. Shreiber is City Engr.

**Chouteau, Mont.**—(Official)—Bids will be received until 8 p.m., Aug. 9, by A. L. Powers, Town Clk., for the construction of a municipal water system. The work includes the installing of electric pumps, laying mains and the construction of a concrete reservoir. The estimated cost is $32,000. Swearingen & McCulloh, Chouteau, is City Engr. Noted June 24.

**Fromberg, Mont.**—Bids will be received by Charles J. Jones, Town Clk., until Aug. 14 for the construction of a water system. The estimated cost is $17,500. B. C. Lillis, Billings, is Engr. Noted July 1.

**Helena, Mont.**—The construction of a 6300-ft. flume has been recommended to the City Council by the Water Commission.

**Lees Summit, Mo.**—The citizens contemplate holding an election to vote on the question of issuing bonds for the construction of a reservoir and pumping station.

**Lees Summit, Mo.**—The citizens have subscribed a fund of $18,000 to form a company for the purpose of constructing a five-mile pipe line from the County Hospital. O. C. Browning is interested.

**✚St. Louis, Mo.**—The city has awarded the contract for installing two 350-hp. boilers at high service pumping station No. 2 to the HEINE SAFETY BOILER CO., at $15,126. Noted July 8.

**Washington, Mo.**—An election will be held to vote on the question of issuing $60,000 in bonds, the proceeds of which will be used for the purchase of the water system. If the plant is purchased improvements will be made.

**Leslie, Ark.**—The city plans to issue bonds, the proceeds of which will be used for the construction of a water system. W. F. Cook, Jr., Little Rock, is Engr. Noted Mar. 18.

**✚Bangs, Tex.**—The contract for developing a water supply for the proposed water system has been awarded to CHARLES HART & SONS.

**Beaumont, Tex.**—All bids received July 14 for the construction of a c.-i. pipe have been rejected. Bids will be received until Aug. 17 for this work. Burns & McDonnell, Scaritt Bldg., Kansas City, Mo., is Engr. Noted July 1.

**Elgin, Tex.**—At a recent election the citizens voted in favor of the question of issuing $11,000 in bonds. The proceeds will be used for the construction of a water system. Noted June 24 and July 1.

**✚Lehigh, Okla.**—The contract for the extension of the water system has been awarded to W. S. SWANWICK, Joplin, Mo., at $38,600. The Benham Engineering Co., Oklahoma City, is Consult. Engr. Noted May 13.

**Edgewater, Colo.**—An election will be held Aug. 2 to vote on the question of issuing $72,000 in bonds. The proceeds will be used for the construction of a water system. C. W. Gist is Town Clk.

**Denver, Colo.**—The VaSant-Houghton Engineering Co., San Francisco, Calif., has been engaged to prepare preliminary plans for the construction of a new municipal water system. The estimated cost is $150,000. Noted July 1.

**Sugar City, Idaho**—At a recent election the citizens voted in favor of the question of issuing $15,000 in bonds. The proceeds will be used for the installation of a water system.

**Bingham Canyon, Utah**—Bids will be received until Aug. 5 by F. W. Quinn, Clk., for the purchase of $17,000 in bonds. The proceeds will be used for the improvement of the water system.

**Logan, Utah**—Bids have been received for constructing (a) a five-mile 22-in. pipe line and (b) for a 1,000,000-gal. reservoir as follows: Olof Nelson, Logan, (a) $49,550, (b) $16,612; Owen H. Grey, Salt Lake City, (a) $53,673, (b) $18,447; J. E. Wilson, Logan, (a) $54,011, (b) $20,616. Noted July 8.

**Florence, Ariz.**—F. N. Ensign, Phœnix, is preparing plans for the construction of a municipal water works plant and an electric-light system. The estimated cost is $50,000.

**Hillyard, Wash.**—The city plans to issue $6000 in bonds. The proceeds will be used for the construction of a water system.

**Seattle, Wash.**—Plans have been approved by the Board of Public Works for the construction of water mains in 59th Ave., N. E. The estimated cost is $6000.

**✚Wenatchee, Wash.**—The Trustees of the West Okanogan Irrigation District have awarded the contract for the construction of an irrigation system, to serve 10,000 acres, to the GUTHRIE, McDOUGAL & CO., Portland, at $510,650.

**Milwaukee, Ore.**—An election will soon be held to vote on the question of issuing $15,000 in bonds. The proceeds will be used for the extension of the water mains from Milwaukee to Portland.

**✚Mono Lake, Calif.**—The contract for the construction of a reinforced-concrete irrigation dam has been awarded to the DUNCANSON-HARRELSON CO., Chronicle Bldg., San Francisco. The estimated cost is $250,000.

**San Rafael, Calif.**—An election will be held Aug. 28 to vote on the question of issuing $300,000 in bonds. The proceeds will be used for the construction of a municipal water system.

**The Narrows, Man.**—Plans will soon be prepared for the construction of a new water system. The estimated cost is $80,000. H. H. Elliott is Town Clk. Noted July 8.

**Canora, Sask.**—Plans are being prepared by Chipman & Power, Mail Bldg., Toronto, for the installation of a water system. The estimated cost is $20,000. Noted July 22.

## SEWERS

**✚Augusta, Maine**—The contract for the construction of sewers in Pope, Middle, Bridge, Liberty and Spruce St. has been awarded to THOMAS HICKEY.

**Portland, Maine**—The city has made a supplementary appropriation of $30,000 for the construction of the East Side Intercepting Sewer and the proposed Libbytown Gulley Sewer.

**✚Andover, Mass.**—(Official)—The Board of Public Works has awarded the contract for the construction of the Abbott and Marland sewer system to CENENDELLA & CO., Milford, at $39,739. Other bids were: Philip Holland, $39,980; F. E. McDonough, $46,000; J. Wagenbauch, $40,242; D. Sheean, $46,-000; J. J. Evans, $41,200; Rosso & Co., $40,700; C. E. Trumbull Co., $45,000; Morrison & Young, $45,891. Noted July 15.

**Lowell, Mass.**—The City Council has voted to borrow $20,000 for the completion of the sewer system.

★**Pittsfield, Mass.**—(Official)—Bids will be received until Aug. 4 by the Clerk of the Board of Public Works for the construction of sanitary sewers and filtration beds. A. B. Farnham is City Engr. Noted May 27.

**Salem, Mass.**—The City Council has appropriated $7000 for the construction of sewers in Cleveland Rd., Loring Ave. and connecting streets.

**Wallingford, Conn.**—Bids will be received until Aug. 3 by John E. Martin, Warden, for the construction of tile pipe sewers and for the completion of the low-level trunk sewer. W. A. Mackenzie is City Engr.

✚**New York, N. Y.**—(Borough of Brooklyn)—(Official)—Contracts for sewer construction have been awarded to the STANHOPE CONTRACTING CO., 404 Stanhope St., Brooklyn, at $15,995, for constructing sewers in 15th St.; and JOHN C. SCHRADE, Inc., 2132 Beverly Rd., Brooklyn, at $2503, for constructing sewers in Gravesend Ave. Noted July 15.

✚**New York, N. Y.**—(Borough of Brooklyn)—(Official)—The contract for installing complete the mechanical equipment at the 26th Ward Disposal Works at Hendrix St. and Vandalia Ave. has been awarded to the NORTH EASTERN CONSTRUCTION CO., 225 Fifth Ave., N. Y., at $4698. Noted July 22.

**New York, N. Y.**—(Borough of Manhattan)—(Official)—Bids will be received until 2 p.m., Aug. 3, by Marcus M. Marks, Borough Pres., for the relocation and reconstruction of sewers in Rector St.

✚**New York, N. Y.**—(Borough of Manhattan)—(Official)—Contracts for sewer construction have been awarded to the KINGSBRIDGE CONTRACTING CO., at $144,404, for constructing sewers in East 41st St. and in Madison Ave.; and to the LACONIA CONTRACTING CO., at $10,926, for constructing sewers in Wall St. Noted July 15.

✚**New York, N. Y.**—(Borough of Manhattan)—(Official)—The contract for improving the sewer in 32nd St. from Broadway to Fifth Ave. has been awarded to P. J. KEARNS, at $7198. Noted July 22.

**Syracuse, N. Y.**—Bids will be received until Aug. 4 by Harry J. Hamlin, Secy., Intercepting Sewer Board, for the construction of storm-water sewers in the northeasterly section of the city.

**Utica, N. Y.**—Bonds for $18,000 have been sold, the proceeds of which will be used for the construction of the Kossuth Ave. relief sewer. A. M. Burke is City Comptroller.

**Bayonne, N. J.**—Bids will be received until 4 p.m., Aug. 3, by the Board of City Commissioners for the reconstruction of sewers and appurtenances in West First St. William P. Lee is City Clk.

**Newark, N. J.**—(Official)—Bids will be received until 3:15 p.m., Aug. 5, by M. R. Sherrerd, City Engr., for the construction of sewers in Lexington and North 12th St.

**Trenton, N. J.**—The Board of City Commissioners has authorized the construction of a sewer system in Melrose Ave. Frank Thompson is City Clk.

**Bellwood, Penn.**—(Official)—The State Board of Health has approved plans for the construction of a sanitary sewer system. Noted Feb. 4.

**Erie, Penn.**—Plans have been prepared for the construction of an experimental sewage-disposal plant. The estimated cost is $8000. E. B. Briggs is City Engr.

**Juniata, Penn.**—(Official)—The State Board of Health has approved plans for the construction of a sanitary sewer system.

★**Lebanon, Penn.**—(Official)—Bids will be received by the Mayor and the City Council until 5 p.m., Aug. 18, for the construction of a sewage-disposal plant. T. R. Crowell is City Engr. and D. M. Sharp is City Clk. Noted July 15.

**South Connellsville, Penn.**—At a recent election the citizens defeated the question of issuing $30,000 in bonds. The proceeds of which was to have been used for the construction of a sewer system. Noted June 17.

**West Chester, Penn.**—It is reported that the Borough Engineer will prepare plans for the construction of a sewage pumping station at Everhart Grove.

**Baltimore, Md.**—Plans have been prepared for the construction of approximately eight miles of lateral sewers. The estimated cost is $100,000.

**Richmond, Va.**—Bids will soon be received by the City Engineer for the construction of sewers in various streets. The estimated cost is $42,000.

**Eustis, Fla.**—An election will be held about Aug. 13 to vote on the question of issuing $20,000 in bonds. The proceeds will be used for the construction of approximately three miles of sanitary sewers and Imhoff tanks. Noted Nov. 12.

**Largo, Fla.**—Bids will be received until Aug. 3 by the Pinellas County Commissioners for the construction of a sanitary sewer system and a septic tank.

**Palmetto, Fla.**—An election will be held Aug. 10 to vote on the question of issuing $16,000 in bonds. Part of the proceeds will be used for the construction of sewers. Charles Dennett is Mayor.

**Starke, Fla.**—An election will be held Oct. 5 to vote on the question of issuing $26,000 in bonds. The proceeds will be used for the construction of a sewer system. C. F. Hoover is Mayor. Noted May 6.

**Clarksdale, Miss.**—Bids will be received until Aug. 3 by W. S. Bobo, City Engr., for the sale of $15,000 in bonds. The proceeds will be used for the construction of sewers. Noted July 8.

**Tutwiler, Miss.**—The city contemplates issuing $15,,000 in bonds. Part of the proceeds will be used for the construction of a sewer system.

**Harlan, Ky.**—At a recent election the citizens voted to issue $7500 in bonds. The proceeds will be used for the construction of a sewer system. Noted June 24 and July 15.

✚**Madisonville, Ky.**—The contract for the construction of a sewer has been awarded to the QUINN CONSTRUCTION CO., Nashville, Tenn., at $6057.

**Akron, Ohio**—The State Board of Health has given the city six months in which to repair, improve or enlarge the sewage-disposal plant at the County Infirmary grounds.

✚**Cincinnati, Ohio**—(Official)—Contracts for the construction of the Walworth Run Diversion Sewer have been awarded to HOAG & ZULLO, Cleveland, Section No. 1, at $114,900 and to DONOLLEY & GRAHAM, Cleveland, Section No. 2, at $101,-262. Noted July 15.

✚**Cincinnati, Ohio**—(Official)—The contract for the construction of sewers in the Madisonville Sewer District, Contract No. 3, has been awarded to THOMAS P. STRACK, Cincinnati, at $61,756. Noted July 22.

✚**Cincinnati, Ohio**—(Official)—The contract for the construction of sewers in East Third St. and Hamilton Ave. has been awarded to THOMAS MALONEY, at $5059 and $22,-827 respectively. Noted July 8.

✚**Cincinnati, Ohio**—(Official)—The contract for the construction of main and lateral sewers and drains with appurtenances in Seitz, Dorsey and Goethe St. has been awarded to HENKEL & SULLIVAN, Cincinnati, at $11,912. Noted July 1.

**Cleveland, Ohio**—The State Board of Health has made an extension of two years in which to stop the pollution of the Cuyahoga River.

**Columbus, Ohio**—Bids will be received until Aug. 3 by the Director of Public Service for the construction of the Milo main trunk sewer, Contract No. 4.

**Dayton, Ohio**—Bids will be received until Aug. 1 by J. E. Bartow, Dir. of Pub. Ser., for the construction of sewers in Old Orchard, Summit, Second, Arbor, Evanston, Eaton, Commercial and Highland St. F. O. Eichelberger is City Engr. Noted Apr. 22.

**Delphos, Ohio**—Bonds for $12,387 have been sold, the proceeds of which will be used for the construction of a sewage-disposal plant.

**Lakewood, Ohio**—Plans have been approved by the State Board of Health, Columbus, for the construction of a sewage-disposal plant.

**Northfield, Ohio**—(Official)—No bids were received July 19 by C. S. Machwart, Village Clk., for the construction of 12,000 ft. of 4-in., 3000 ft. of 6-in. tile drain, 444 ft. of 15-in. corrugated culvert pipe and 10 bbl. portland cement. Noted July 15.

✚**Painesville, Ohio**—The contract for the construction of storm sewers in Richmond St. has been awarded to TONY TRIFILETTE, Lorain, at $11,813.

**Sandusky, Ohio**—The State Board of Health, Columbus, has approved plans for the construction of a sewage-disposal plant and an intercepting sewer system. The estimated cost is $200,000.

**Toledo, Ohio**—Plans are being prepared by William H. Gould, County Sanitary Surveyor, for the construction of 14 miles of 8-, 10-, 12-, 15-, 18- and 24-in. vitrified pipe sewers.

**Toledo, Ohio**—Bids will be received until noon, Aug. 3, by Charles J. Sanzenbacher, Audr., Lucas County Comn., for the construction of local sanitary sewer No. 18, in Lucas County.

**Brazil, Ind.**—(Official)—The city will not construct the proposed sanitary sewers in the West End as was noted in the issue of July 8. F. C. Wilson is City Engr.

✚**Logansport, Ind.**—A contract for sewer construction has been awarded to PALMER, MOORE & CO.

✚**Grand Rapids, Mich.**—(Official)—The contract for the construction of approximately six miles of 8- to 18-in. pipe sewers and a sewage-disposal plant has been awarded to A. H. PRANGE, Grand Rapids, at $37,000. Other bids were: Harry Vander View, $37,500; J. N. Bick, $38,200; Whaley & Edwards, $38,300; Allegan County Construction Co., $39,300; Verhey & Kart, $40,000. Noted June 10.

**Reed City, Mich.**—The contract will be awarded about Aug. 12 for the construction of sewers. The estimated cost is $15,000. M. W. Brown is Chn. of Sewer Com.

**Chrisman, Ill.**—The city contemplates the construction of sewers. The estimated cost is $9500. George W. Fair is City Engr.

**Rock Island, Ill.**—Plans have been submitted to the Board of Local Improvements for the construction of storm drains in the southern section of the city. The estimated cost is $10,000. Wallace Treicher is City Engr.

**Wenona, Ill.**—(Official)—We have been advised by F. H. Ong, City Clk., that the contract for the construction of a sewer system with septic tanks will be awarded without fail on Aug. 3. Noted June 24.

✚**Milwaukee, Wis.**—(Official)—The contract for the construction of 11 reinforced-concrete tanks on pile foundation has been awarded to JOHN F. CASEY CO., Pittsburgh, Penn., at $55,000. Noted July 8.

**Whitewater, Wis.**—The lowest bid submitted for the construction of sewers was that of M. A. Lanyon, Waukegan, Ill., at $23,900. Noted July 8.

**Cherokee, Iowa**—(Official)—Bids will be received until July 30 by William Shardlow, City Clk., for the construction of approximately 3½ miles of sanitary sewers. The estimated cost is $16,000. G. Y. Skeels, Sioux City, is Engr. Noted July 1 under Idagrove, Iowa.

**Fairfield, Iowa**—Bids will be received until Aug. 7 by the City Clerk for the construction of a sanitary sewer. The estimated cost is $10,000.

**Laporte City, Iowa**—Bids will be received until 8 p.m., Aug. 4, by G. E. Stebbins, Town Clk., for the construction of sewers and a sewage-disposal plant. M. Tschirgi & Sons, Cedar Rapids, is Engr. Noted June 24.

✚**Eveleth, Minn.**—(Official)—The contract for the construction of a sewage-disposal plant has been awarded to the EVELETH CONSTRUCTION CO., Eveleth, at $34,900. Noted June 24.

✚**Clyde, Kan.**—The contract for the construction of a sewer system has been awarded to BASH & JAMES, Joplin, Mo., at $15,299. Other bids were: P. A. Johnson, Kansas City, $17,-275; Axtel G. Oldham, Kansas City, Mo., $15,915; James Stanton, Leavenworth, $19,254; Eby Construction Co., Wellington, $15,891; Inter Mountain Bridge & Construction Co., Tecumseh, Neb., $18,122; Gilkeson & Martin, Muskogee, Okla., $17,485; McCoy & Taylor, Kansas City, Mo., $20,309; Tonkawa Construction Co., Kansas City, Mo., $16,640. Noted July 8.

**Hutchinson, Kan.**—Bids will be received until 3 p.m., Aug. 3, by G. W. McLane, City Engr., for sewer extensions. The estimated cost is $10,000. Noted July 1.

**Norton, Kan.**—Bids will be received until 7:30 p.m., Aug. 2, by Vernie Fawcett, City Clk., for the construction of main, intercepting and lateral sewers and a sewage-disposal plant. Worley & Black, Reliance Bldg., Kansas City, Mo., is Engr.

✚**Pratt, Kan.**—The contract for sewer construction has been awarded to the LAUNDER CONSTRUCTION CO., Kansas City, Mo., at $11,500. Noted June 24.

**Topeka, Kan.**—Bids have been received for the construction of the East Side sewer from the Commercial Construction Co., Chicago, Ill., $127,375; J. A. Pringle, Topeka, $125,834; F. M. Torson, Kansas City, $105,430. A. R. Young is City Engr. Noted June 24.

**Wichita, Kan.**—The city contemplates the construction of sewers in the northern section of the city. The estimated cost is $4000.

**Bridgeport, Neb.**—Bids will be received until Aug. 3 by the City Clerk for the construction of approximately 5700 ft. of 12-in. and 3400 ft. of 10-in. sewers. Noted Mar. 25.

**Grand Island, Neb.**—The City Council contemplates holding an election to vote on the question of issuing $100,000 in bonds. The proceeds will be used for the construction of sewers. Noted Mar. 18.

**Watertown, S. D.**—(Official)—Bids will be received until 8 p.m., Aug. 16, by O. M. Lane, City Audr., for the construction of approximately 1558 ft. of 15-in., 5004 ft. of 18-in., 2112 ft. of 30-in. and 2167 ft. of 33-in. of sanitary sewers, 1186 ft. of 36-in., 3469 ft. of 42-in., 5034 ft. of 57-in. storm sewers, pumping station, and 4824 ft. of 16-in. c.i. force mains. The estimated cost is $112,000. F. W. Schreiber is City Engr. Noted July 1.

★**Dallas, Tex.**—(Official)—Bids will be received until 10:30 a.m., Aug. 23, by J. B. Winslett, City Secy., for the construction of improved sewerage works, Contract No. 5, North Interceptor, Contract No. 6, pumping station, 36-in. force main and Oak Cliff trunk line across the Trinity River, Contract No. 7, disposal works including 36-in. force main from Station No. 5 plus 88.7 to the disposal works.

**Santa Anna, Tex.**—At a recent election the citizens voted to issue $6000 in bonds. The proceeds will be used for the construction of a sewer system.

✚**Moscow, Idaho**—(Official)—The contract for the construction of sanitary sewers has been awarded to GEORGE E. WYCOFF, Spokane, Wash., at $11,879. Noted July 8.

**Harrington, Wash.**—An election will be held July 31 to vote on the question of issuing bonds, the proceeds of which will be used for the construction of a sewer system.

**Enterprise, Ore.**—The city contemplates the construction of lateral sewers in various streets estimated to cost $23,000.

**Los Angeles, Calif.**—J. Chutuk, at $39,118, submitted the lowest bid for the construction of sewers in Temple St. from Oxford Ave. to Kingsley Drive and in other streets.

✚**Oakland, Calif.**—The City Council has awarded the contract to the TIBBITTS-PACIFIC CO., San Francisco, at $9679, for the construction of the North Side sewer.

✚**Santa Cruz, Calif.**—The contract for the construction of sewer extensions has been awarded to D. BRYNE, at $11,770.

**New Toronto, Ont.**—It is reported that the city of New Toronto and Mimico will construct a sewer system and a sewage-disposal plant. The disposal plant will be built in Mimico. The estimated cost is $50,000.

**St. Thomas, Ont.**—Plans are being prepared by W. N. Ferguson, Engr., for the construction of a sewage-disposal plant. The estimated cost is $15,000.

**Vancouver, B. C.**—Plans have been approved by the Joint Sewerage Commission for the construction of the Hastings Park trunk sewer. The estimated cost is $200,000.

**Victoria, B. C.**—(Official)—The Council plans an expenditure of $74,654 for paving and sewer construction. The work will be done by day labor. Noted July 15.

### GARBAGE

**Gainesville, Fla.**—The city contemplates the construction of a garage incinerator.

**Fresno, Calif.**—An election will soon be held to vote on the question of issuing $50,000 in bonds. The proceeds will be used for the construction of an incinerator.

**Lachine, Que.**—The city will soon start work on the construction of a new incinerator.

### STREETS AND ROADS

✚**Augusta, Maine**—(Official)—Contracts have been awarded for constructing roads as follows: Hermon Rd., 1.09 miles to the AHERN CONSTRUCTION CO., Willimantic, Conn., $7369; Ellsworth Rd., 0.78 mile to the AHERN CONSTRUCTION CO., Willimantic, Conn., $5610; Brewer Rd., 0.43 mile to H. A. & S. G. DAY, Bangor, $1905; Monson Rd., 2.27 miles, to JAMES H. KERR, Rumford, $13,850.

✚**Hinsdale, N. H.**—A contract for constructing the state road and grading the hills on Brattleboro St. has been awarded to JAMES E. HELYAR, Brattleboro, at $7000.

**Beverly, Mass.**—The City Council plans to repave Rantoul St. from Bow to Chestnut St.

**Boston, Mass.**—Bids will be received until Aug. 3 by the State Highway Commission for constructing 5200 lin.ft. of road in Ashburnham and 5200 lin.ft. of road in Chelmsford. Arthur W. Dean is Ch. Engr. of Comn.

**Quincy, Mass.**—The sum of $15,300 has been appropriated for road work on a number of streets. Chester I. Campbell is Mayor.

✚**Glastonbury, Conn.**—A contract for paving Nauhegan Ave. with macadam has been awarded to the R. G. MILLER CONSTRUCTION CO.

★**Albany, N. Y.**—(Official)—Bids were received July 26 by the State Highway Commissioner for constructing Road No. 5498, Cornwall-West Point, Parts 1 and 2, Orange County, 4.03 miles. John J. Hart, Peekskill, $280,065; Nordone & Petrillo, Mt. Vernon, $294,545; Samuel Besmin, Inc., Beacon, $[illegible],823; William Horne Co., New York, $297,822; P. J. Joyce Co., Inc., New York, $298,620; James M. Hamilton & Co., Gardner, $299,-310; James Anderson, Menands, $312,040; Cleveland & Sons Co., Brockport, $316,790; Peter F. Connolly Co., Boston, Mass., $322,403; Woolsey Construction Co., Poughkeepsie, $336,320; Winston & Co., Brown Station, $343,193; Richards & Glaston, Inc., New York, $359,253; Scott Bros., Rome, $392,937; H. S. Kervaugh, Inc., New York, $395,176. Road No. 5573, Cornwall-West Point, Part 3, Orange County, 1.17 miles. Nordone & Petrillo, Mt. Vernon, $13,341; Woolsey Construction Co., Poughkeepsie, $13,387; Samuel Beskin, Inc., Beacon, $13,400; James Anderson, Menands, $13,637; Winston & Co., Brown Station, $13,908; Cleveland & Sons Co., Brockport, $14,-097; James M. Hamilton & Co., Gardner, $14,483.

✚**Cohoes, N. Y.**—The contract for paving Bowery St. with brick has been awarded to WALSH & KEEGAN, Albany, at $17,045.

**New York, N. Y.**—(Borough of Bronx)—(Official)—Bids will be received until 10:30 a.m., Aug. 3, by Douglas Mathewson, Borough Pres., for regulating, grading, paving, laying sidewalks, etc., on various streets.

**New York, N. Y.**—(Borough of Brooklyn)—(Official)—Bids were received by L. H. Pounds, Borough Pres., for regulating, grading, curbing and laying sidewalks on 81st St. from 19th to 21st Ave. as follows: B. Tawrecano, Inc., $5177; W. T. Maxwell, $5474; M. Paconi, $5002. Noted July 15.

**New York, N. Y.**—(Borough of Brooklyn)—(Official)—Bids were received July 14 by L. H. Pounds, Borough Pres., for improving (a) East Ninth St. from Ave. O to Ave. Q, (b) East 19th St. from Ave. L to Ave. M, (c) East 39th St. from Ave. I to Ave. K as follows: Uvalde Asphalt Co., (a) $12,491, (b) $4932, (c) $9724; Cranford Co., (a) $14,828, (b) $5732, (c) $11,-261; Brooklyn Alcatraz Co., 407 Hamilton Ave., (a) $11,779, (b) $4428, (c) $8974; Sicilian Asphalt Co., (a) $13,976, (b) $5333, (c) $10,530.

✚**New York, N. Y.**—(Borough of Brooklyn)—(Official)—Contracts have been awarded for regulating, grading, curbing and laying sidewalks on 63rd St. from 21st Ave. to Bay Parkway to the UVALDE ASPHALT PAVING CO., 1 Broadway, at $4283; 81st St. from 19th to 21st Ave. to NICOLA PAVONI, 1320 65th St., at $5002. Noted July 15.

**New York, N. Y.**—(Borough of Manhattan)—(Official)—Bids will be received until 2 p.m., Aug. 3, by Marcus M. Marks, Borough Pres., for regulating and paving with sheet asphalt a number of streets.

**New York, N. Y.**—(Borough of Richmond)—(Official)—Bids were received July 20 for regulating and grading Haven Esplanade from Barrett Blvd. to Castleton Ave. as follows: C. Vanderbilt, 24 Elizabeth St., West New Brighton, $5631; Barber Asphalt Paving Co., $7212; Joseph Johnson Sons, $6809 J. F. Donovan, $5686.

✚**Salamanca, N. Y.**—The contract for paving Summit, Wilson, Armstrong and Jefferson St. has been awarded to H. E. BUNCE, Olean, $28,861.

**Bound Brook, N. J.**—The Borough Council plans to pave Main St., one portion of which will be paved with asphalt block and another with concrete.

**Camden, N. J.**—It is reported that the Board of Freeholders of Camden County plans to improve the White Horse Pike from Camden to Berlin with amesite.

✚**Flemington, N. J.**—The contract for improving Pennsylvania Ave. from Broad St. to the borough line has been awarded to J. L. LeCOMPTE.

**Guttenburg, N. J.**—Nolan & Hornung, 711 Du Bois St., West Hoboken, submitted the lowest bid at $2.20 per sq.yd. for paving 3908 sq.yd. of Bergenline Ave. Noted July 8.

**Jersey City, N. J.**—Bids will be received until 11 a.m., Aug. 5, by the Board of City Commissioners for repairing portions of Grand and Bay St., Bramhall and Ocean Ave. Michael I. Fagen is City Clk.

**Jersey City, N. J.**—Bids will be received until 11 a.m., Aug. 5, by the Board of City Commissioners for repairing Jackson Ave. from Bayview to Bidwell Ave. M. I. Fagen is City Clk.

**Jersey City, N. J.**—Plans have been approved for repairing and improving the Paterson Planbroad in Hudson County for a distance of 1½ miles. Thomas J. Wasser is County Engr.

**Jersey City, N. J.**—Henry Byrne, Comr. of Streets, plans to pave Garfield Ave. with asphalt at an estimated cost of $25,000.

**Newark, N. J.**—(Official)—Bids will be received until 3:30 p.m., Aug. 5, by the Board of Street and Water Commissioners for paving Oxford Ave. from Fleming to Passaic Ave., Tyler St. from Chestnut to Malvert St., Vesey St. from Pacific to McWorter St., Yates Ave. from Osborne Terrace to about 346 lin.ft. easterly therefrom on both sides of a central parkway 12 lin.ft. in width and Read St. from Market St. to Passaic Ave.

**Newark, N. J.**—(Official)—Bids will be received until 3:30 p.m., Aug. 5, by the Board of Street and Water Commissioners for paving Hinsdale Pl. Morris R. Sherrerd is Chief Engr.

✚**Trenton, N. J.**—The contract for resurfacing the Brunswick Pike has been awarded to the CONTINENTAL PUBLIC WORKS CO., New York, N. Y. Noted May 20.

**Harrisburg, Penn.**—(Official)—Bids will be received until 10 a.m., Aug. 10, by the State Highway Department for reconstructing roads as follows: Lycoming County, 5843 lin.ft. of brick block pavement in Muncy Borough, Northumberland County, 4940 lin.ft. of brick block pavement in Milton Borough and Monroe County, 4871 lin.ft. of brick block pavement in Stroudsburg Borough. Robert J. Cunningham is State Highway Comr.

**Philadelphia, Penn.**—Bids will be received until noon, Aug. 4, by M. L. Cook, Dir. Pub. Ser., for improving, paving and opening Emerald St. under the Philadelphia & Reading R.R.

✚**Plymouth, Penn.**—The contract for paving West Main St. has been awarded to EDWARD QUINN, Plymouth, at $11,181.

✚★**Cumberland, Md.**—(Official)—The contract for improving Baltimore St. between the Western Maryland Ry. and the Baltimore & Ohio R.R. has been awarded to J. TONER BARR, Pittsburgh, at $22,416. Other bids were: John J. Carley, Richmond, Va., $23,608; Brady Bros., Frostburg, Md., $25,731. Noted July 15.

**Bristol, Va.**—At a recent election the citizens of Montgomery County voted in favor of issuing $100,000 in bonds, the proceeds of which will be used for improving roads.

**Christiansburg, Va.**—At a recent election the citizens of Christiansburg District of Montgomery County voted in favor of issuing $100,000 in bonds, the proceeds of which will be used for improving roads. Noted June 10.

★**Staunton, Va.**—(Official)—Bids will be received until 10 a.m., Aug. 6, by the Board of Supervisors of Augusta County for grading and macadamizing about four miles of road in Middle River District. R. W. Moore is Supt. Roads.

**Logan, W. Va.**—Press reports state that an election will be held Sept. 7 to vote on the question of issuing $200,000 in bonds, the proceeds of which will be used for constructing roads.

✚**Parkersburg, W. Va.**—The contract for paving sections of Avery and 18th St. has been awarded to the PARSON CONSTRUCTION CO., Brownsville, Penn.

**Philippi, W. Va.**—At a recent election the citizens voted in favor of issuing $20,000 in bonds, $9000 of which will be used for street paving.

**Welch, W. Va.**—(Official)—Bids will be received until Aug. 3 for constructing 34 miles of dirt road, 16 ft. wide in Big Creek District. W. J. McClaren is County Road Engr. Noted Apr. 13.

**Dobson, N. C.**—An election will be held Aug. 24 in Bryan Township to vote on the question of issuing $35,000 in bonds, the proceeds of which will be used for constructing roads in Bryan Township, Surrey County.

**Dobson, N. C.**—An election will be held Aug. 10 in Westfield Township to vote on the question of issuing $30,000 in bonds, the proceeds of which will be used for constructing roads in Westfield Township, Surrey County.

**Augusta, Ga.**—Press reports state that the City Council plans to pave Ninth St. from Broad to Walker St. with creosoted wood block at an estimated cost of $30,000.

**Leesburg, Ga.**—At a recent election the citizens of Lee County voted in favor of issuing $27,000 in bonds, the proceeds of which will be used for improving roads.

✚**Laurel, Miss.**—A contract for paving a number of streets has been awarded to the SOUTHERN PAVING & CONSTRUCTION CO., Chattanooga, at approximately $95,000. Noted July 15.

**Algiers, La.**—(New Orleans post office)—According to press reports the citizens plan to construct a five-mile paved boulevard from the immigration station and naval-station grounds to the Cut-Off road to the southward. E. E. Lafaye is Comr. of Pub. Property.

**New Orleans, La.**—(Official)—Bids will be received until noon, Aug. 16, by the highway Department of the Board of State Engineers, 104 New Orleans Court Bldg., for constructing 26 miles of highway in Road District No. 1, West Baton Rouge Parish. W. E. Atkinson is State Highway Engr. and Frank M. Kerr is Ch. State Engr. and Pres. Bd. of State Engineers.

**Madisonville, Tenn.**—At a recent election the question of issuing $300,000 in bonds, the proceeds of which was to have been used for constructing roads, was defeated. Noted Apr. 29.

✚**Elkton, Ky.**—The Todd County Fiscal Court has awarded a contract to ROY L. GOWELL, Russellville, at $17,445, for constructing 43.3 miles of model pike road.

**Winchester, Ky.**—Bids will be received until 8 p.m., Aug. 6, by C. B. Tracy, Clk., for paving 13,000 sq.yd. with asphalt.

✚**Bellefontaine, Ohio**—A contract for improving the south end of Anderson Bell Pike has been awarded to M. R. KOFFROTH, Richwood, at $9560.

**Bowling Green, Ohio**—(Official)—Bids will be received until 2 p.m., Aug. 16, by C. E. Stinebaugh, County Audr., for constructing the Elizabeth Schnell bituminous macadam road and the John Minning waterbound macadam road.

**Chardon, Ohio**—Bonds for $30,000 have been sold, the proceeds of which will be used for improving roads in Huntsburg Township.

✚**Cincinnati, Ohio**—(Official)—The contract for improving Glenway Ave. from Warsaw Ave. to the wood-block pavement at West Line Section 36 has been awarded to the KIRCHNER CONSTRUCTION CO., Cincinnati, at $79,752. Noted July 8.

✚**Cincinnati, Ohio**—(Official)—The contract for improving Montgomery Rd. from Gilbert Ave. to the Norfolk & Western Ry. has been awarded to the KIRCHNER CONSTRUCTION CO., Cincinnati, at $86,949. Noted July 8.

**Cleveland Heights, Ohio**—(Warrensville post office)—(Official)—Bids will be received until noon, Aug. 16, by H. H. Canfield, Village Clk., for improving the Warrensville Center Rd.

✚**Columbus, Ohio**—Contracts have been awarded for road construction as follows: Ashland County, Ashland-Loundonville Rd., 3.58 miles, macadam, D. A. PHILLIPS, Ashland, $44,036; Montgomery County, Cincinnati-Dayton Rd., 2.45 miles, brick, STRODBICK BROS., Middletown, $62,359; Stark County, Canton-Steubenville Rd., 2.59 miles, TURNBULL BROS. & CO., Canton, $51,084; Union County, Urbana-Marysville Rd., 4.27 miles, concrete, OATHER M. JUNK, Chillicothe, $51,990. Noted July 15.

**Defiance, Ohio**—(Official)—The time for receiving bids has been extended from July 28 to noon, Aug. 4, by Clayton M. Rath, Dir. Pub. Ser., for laying 28,129 sq.yd. of pavement. Noted July 22.

**East View, Ohio**—Bids will be received until noon, Aug. 12, by Charles E. Burger, Clk., for improving and constructing sidewalks on Helen St. from Kinsman Rd. to the village limits. The Pease Engineering Co., 804 Marshall Bldg., Cleveland, is Engr.

✚**Lakewood, Ohio**—(Official)—Contracts have been awarded by the city for paving Norton Ave. with brick and Lake Ave. with sheet asphalt to the CLEVELAND TRINIDAD PAVING CO., Cleveland, at $5707 and $35,293 respectively; French and Virginia Ave. with brick to PACE BROS., at $13,274 and $10,469 respectively; Dowd St. to BALDWIN BROS., at $11,150. Noted July 1.

✚**Lockland, Ohio**—(Official)—The contract for improving Mill St. has been awarded to HENKEL & SULLIVAN, Cincinnati, at $10,917. Other bids were: Kirchner Construction Co., $11,782; C. N. Danenhower, $11,815; Thomas P. Strack, $12,400. Noted June 17.

**Mt. Gilead, Ohio**—(Official)—Bids will be received until 11 a.m., Aug. 6, by the Commissioners of Morrow County for constructing the Sexon-Thatcher Rd. in Gilead and Canaan Townships. C. O. Higgins is County Audr.

**Newburg Heights, Ohio**—(Newburg post office)—Bids will be received until noon, Aug. 3, by J. A. Fitzgerald, Clk., for improving and paving Beta, Bridgeview, Gama and Sigma Ave.

✚**New Philadelphia, Ohio**—(Official)—The contract for improving Section 1 of the Oldtown Road Improvement in Goshen and York Townships has been awarded to the W. M. BRODE CO., Newcomerstown, at approximately $16,500. Noted July 8.

**Reading, Ohio**—Bids will be received until noon, Aug. 2, by William F. Kiopmeyer, Clk., for improving Clark St. from Jefferson to Main St. D. S. Hosbrook, Pickering Bldg., Cincinnati, is Engr.

**Rocky River, Ohio**—Bids will be received until noon, Aug. 3, by Frank Mitchell, Clk., for constructing sidewalks in Center Ridge Rd.

✚**Tiffin, Ohio**—(Official)—Contracts have been awarded for paving Coe and East Market St. to JOHN E. KING, Tiffin; and West Davis and Wentz St. to LOUIS SCHANDER, Tiffin. Noted July 8.

**Toledo, Ohio**—Bids will be received until 10 a.m., Aug. 23, by the Commissioners of Lucas County for improving Jerusalem and Oregon Township Road No. 71. Charles J. Sanzenbacher is County Audr.

✚**Upper Sandusky, Ohio**—The contract for paving South Eighth St. has been awarded to the MODERN CONSTRUCTION CO., Fremont, at $19,802.

**Warren, Ohio**—(Official)—Bids will be received until noon, Aug. 21, by George T. Hecklinger, City Audr., for the sale of $13,000 in bonds, the proceeds of which will be used for improving North Tod Ave.

**Brownstown, Ind.**—Bids will be received until Aug. 9 by the City Clk., for paving approximately 17 blocks.

✚**Indianapolis, Ind.**—The contract for paving Keystone Ave. from Washington to Michigan St. with asphalt has been awarded to the REPUBLIC CONSTRUCTION CO., at $12,009.

**Indianapolis, Ind.**—(Official)—Bids will be received until 10 a.m., Aug. 4, by the Board of Public Works for improving a number of streets.

**Knightstown, Ind.**—(Official)—Bids will be received until 8 p.m., Aug. 2, by the Board of Trustees for grading, paving and curbing the public square; also Brown and Washington St.

✚**Liberty, Ind.**—The contract for constructing the Widan Rd. in Union Township has been awarded to WILKS & CO., Rushville, at $19,767.

✚**Noblestown, Ind.**—(Official)—A contract for constructing a county line road has been awarded to T. F. McCARTY, Noblesville, at $4100, by the Commissioners of Hamilton and Marion Counties. Noted June 17.

**Vincennes, Ind.**—(Official)—Bids will be received until 4 p.m., Aug. 9, by the Board of Public Works for paving Main St.

✚**Winchester, Ind.**—A contract for constructing the St. John Rd. in Green Township has been awarded to JOSEPH THORNHILL, Indianapolis, at $5075.

**Burlington, Wis.**—(Official)—Bids will be received until 2 p.m., Aug. 7, by the Board of Public Works for street paving. P. J. Hurtgen is City Engr.

✚**Milwaukee, Wis.**—The Department of Public Works has awarded contracts for paving Vliet St. to the BADGER CONSTRUCTION CO., $50,564; 21st Ave. and Eighth Ave. to the WHITE CONSTRUCTION CO., at $12,859 and $18,837 respectively; Fratney St. to F. P. COUGHLIN, at $6672.

✚**Sheboygan, Wis.**—The contract for constructing concrete pavement on Superior Ave. has been awarded to PETER SINNER, Sheboygan.

✚**Clinton, Iowa**—(Official)—The contract for paving Fourth St. has been awarded to THOMAS CAREY & SONS, Clinton, at $27,917. The only other bid was that of the Independent Construction Co., Davenport, at $29,736.

✚**Columbus Junction, Iowa**—A contract for laying 7910 sq.yd. of brick pavement has been awarded to KORNEMAN & SMITH, Muscatine, at $16,406.

**Duluth, Minn.**—The Board of Public Works plans to repave East Superior St. from 16th to 24th St.

✚**Fairmont, Minn.**—(Official)—A contract for laying 24,000 sq.yd. of wood-block pavement and constructing 6000 lin.ft. of curbing has been awarded to FIELDING & SHEPLEY, St. Paul, at $57,299. Noted June 24.

✚**Virginia, Minn.**—A contract for constructing curbs and gutters in various streets has been awarded to RISBERG-MARWICK, Virginia, at approximately $20,000. Noted June 24.

**Wichita, Kan.**—Bids will be received until Aug. 10 by Bert Wells, City Engr., for paving Park Ave. with concrete.

✚**Norfolk, Neb.**—(Official)—A contract for constructing 30,000 yd. of concrete pavement and 16,000 lin.ft. of concrete curb has been awarded to the H. J. CATHROE CO., Omaha,

at $40,900. Other bids were: D. S. Sears, $42,300; W. J. Creedon, $43,000; A. G. Doll. Noted June 4 and July 15.

**Bozeman, Mont.**—Bids will be received until Aug. 5 by C. A. Spieth, City Clk., for improving streets in a number of districts.

✚**Helena, Mont.**—The contract for paving Wilder Ave. has been awarded to ADAMI BROS., Helena, at $9529.

**Laurel, Mont.**—Bids will be received until Aug. 3 for constructing a road in District No. 15 at an estimated cost of $10,000.

**Missoula, Mont.**—(Official)—Bids will be received until 5 p.m., Aug. 3, by L. E. Harris, City Clk., for paving in Special Improvement District No. 35. E. S. Hathway is City Engr.

✚**Philipsburg, Mont.**—The Commissioners of Granite and Deer Lodge Counties have awarded the contract to the CLIFTON-APPLEGATE CO., at $13,000 for building the Flint creek hill road between Philipsburg and Anaconda.

✚**White Sulphur Springs, Mont.**—A contract for paving about 30 blocks has been awarded to A. G. PETERS, at $7897. Other bids were: Two-Miracle Construction Co., $8522; W. E. Winnie, $9179; McLaughlin & O'Neal, $8486.

**Kansas City, Mo.**—The Board of Public Works plans to pave Park Ave. from 41st to 43rd St. with asphalt.

✚**St. Joseph, Mo.**—(Official)—The contract for paving Noyes Blvd. with refined asphalt has been awarded to the METROPOLITAN PAVING CO., St. Joseph, at $67,510. Other bids were: Van Hafften Contracting Co., $74,432; C. W. Dillingham, $68,019; Cathey Construction Co., $68,169. Noted July 15.

**Houston, Tex.**—The Commissioners of Harris County have authorized the extension of the paving on Clinton Rd. to Penn City, a distance of seven miles, at an estimated cost of $30,000.

**Seguin, Tex.**—(Official)—All bids received July 19 for constructing six miles of road in Guadalupe County were rejected. New bids will be received by the Commissioners of Guadalupe County until Aug. 2 for constructing 12 miles of road. Noted July 15.

**Boulder, Colo.**—Press reports state that bids will be received some time this summer for paving streets in the business section.

✚**Roswell, N. M.**—The contract for paving Seventh St. from Missouri Ave. to Main St. has been awarded to the CLEVELAND TRINIDAD PAVING CO.

✚**Tucson, Ariz.**—The contract for improving Sixth Ave. and other streets has been awarded to the WARREN BROS. CO., at approximately $118,000.

**Aberdeen, Wash.**—Press reports state that the City Council has voted to pave Washington St., at an estimated cost of $16,000.

✚**Anacortes, Wash.**—The contract for paving State St. with concrete has been awarded to N. W. BALL, Seattle, at $10,000.

**Everett, Wash.**—The Commissioners of Snohomish County have authorized Hans Mumm, Jr., County Engr., to prepare plans for the improvement of Permanent Highway No. 19. M. Weatherbee is County Audr.

**Everett, Wash.**—J. W. Hoover, City Engr., is preparing plans for paving and constructing concrete sidewalks in South Rucker Ave.

✚**Olympia, Wash.**—(Official)—Bids were received July 19 by William R. Roy, State Highway Comr., for constructing the Pacific Highway between Custer and Enterprise in Whatcom County as follows: CHARLES E. LIND, Bellingham, $12,187 (awarded contract); Worthen & Satterthwaite, Lynden, $14,489; Sloane Bros., Seattle, $14,733; L. H. Goerig, Seattle, $14,324.

**Olympia, Wash.**—(Official)—Bids were received July 14 by William R. Roy, State Highway Comr., for constructing 15 miles of Olympic Highway between Mud Bay and McCleary in Thurston County as follows: Rojotte, Fobert & Winters, Olympia, $36,304; Burnet Construction Co., Seattle, $34,334; August Wallin, Aberdeen, $32,146; Allred & James, Centralia, $42,778; L. H. Goerig, Lacey, $33,792; Zindorf-Tideral, Seattle, $37,773; H. Graff & F. L. Sheldon, Tacoma, $37,614; Sloane Bros., Seattle, $33,582; Rignell & Bankston, Tacoma, $31,922. Noted June 24.

**Olympia, Wash.**—Bids will be received until 2 p.m., Aug. 9, by William R. Roy, State Highway Comr., for improving 14 miles of McClellan Pass Highway, between Natches and Summit in Yakima County.

✚**Port Angeles, Wash.**—A contract for grading and paving a number of streets has been awarded to FERCH & GASS, Seattle, at $94,533.

**Seattle, Wash.**—Bids were received for constructing four miles of road between Duwamish River and Renton Junction as follows: P. J. McHugh, $59,344; Standifer-Clarkston, Portland, Ore., $85,600; Porter & Conley, $95,531; Rowan & Anderson, $82,598; C. H. Kiel, $89,271; Holt & Jeffery, $95,535; Burnett Construction Co., $73,844; Charles Daley & Co., $80,253; Nettleton-Bruce Eschbach Co., $88,958; Ferch & Gass, $80,776; M. P. Zindorf, $81,212; West Coast Construction Co., $79,793; Horrocks Construction Co., $75,925.

**Tacoma, Wash.**—D. H. White, Engr. of Pierce County, has been authorized by the County Commissioners to prepare plans for hard surfacing the Pacific Highway from the County Club to Dupont, a distance of 5.6 miles. The work will cost approximately $80,000.

**Eugene, Ore.**—The City Council contemplates paving Lawrence St. and other streets. The estimated cost of the work is $11,000.

✚**Portland, Ore.**—The contract for paving San Rafael St. and Rodney Ave. has been awarded to OSKAR HUBER, at $13,004.

**Portland, Ore.**—The City Council plans to repave Upper Washington St. P. H. Dater is City Engr.

✚**Tillamook, Ore.**—A contract for paving three sections of county road with concrete has been awarded to the ARENZ CONSTRUCTION CO., Portland, at $33,227.

**Compton, Calif.**—Press reports state that bids wil soon be received by the Board of Trustees for paving and improving Main St. E. M. Lynch, Glendale, is Engr.

**Fresno, Calif.**—Bids will be received until 2 p.m., [illegible] 5, by the Board of Supervisors of Fresno County for con[illegible]ding 2.7 miles of Badger Sand Creek Rd. D. M. Barnwell [illegible] of the Bd.

**Hermosa Beach, Calif.**—The California Arizona [illegible]ruction Co., at $8416 was lowest bidder for improving [illegible]sler Court.

✚**Livermore, Calif.**—The City Trustees have awarded [illegible] contract for street paving to the CALIFORNIA BITULIT[illegible] CO., at $64,696.

✚**Los Angeles, Calif.**—Contracts have been awarded [illegible] improving Evergreen Ave. from Harrison to Wasbash [illegible] to F. W. WHITTIER, at $7984; York Blvd. from Ave. 45 [illegible] Ave. 54 to BENJAMIN F. FORD and FRED H. STOUT, at $[illegible]62.

✚**Los Banos, Calif.**—A contract for paving and impro[illegible]g 14 blocks has been awarded to W. H. WORSWICK, JR., Fresno, at $48,810.

✚**Manhattan Beach, Calif.**—The contract for improving Ninth, 10th and 11th St. has been awarded to the MODERN CONSTRUCTION CO., at $16,206.

**Quincy, Calif.**—Bids will be received until Aug. 6 by the Board of Supervisors of Plumas County for constructing the Ramelli Turnpike between Beckwith and Vinton. F. R. Young is County Clk.

✚**Riverside, Calif.**—The contract for improving 10.5 miles of county highway in Riverside County has been awarded to the C. L. HYDE CONSTRUCTION CO., San Diego, at $40,599.

**Sacramento, Calif.**—(Official)—Bids were received July 19 by the State Highway Commission for road construction in various counties as follows: (a) Los Angeles County, Section A, Route 9, (b) Santa Clara County, Section B, Route 5, (c) Alameda County, Section B, Route 5; Peter L. Ferry, Tropico, (a) $45,165; Andrew Holloway, Pasdena, (a) $34,583; White & Gaskill, Long Beach, (a) $56,636; Leigh G. Garnsey, Los Angeles, (a) $46,130; Tryon & Brain, Los Angeles, (a) $43,758; C. T. Sioltax and H. A. Taylor, Los Angeles, (a) $48,450; Rogers Bros. Co., Los Angeles, (a) $50,753, M. R. Co., Los Angeles, (a) $49,841; Fred Hoffman, Long Beach, (a) $51,099; Palmer & McBryde, San Francisco, (b) $58,617, (c) $42,884; Bates Borland & Ayer, Oakland, (b) $50,326, (c) $44,520; Highway Paving & Construction Co., San Francisco, (b) $45,694; C. H. & A. W. Gorrill, San Francisco, (b) $48,724, (c) $42,222; John W. McDonald, Jr., San Jose, (b) $90,306; Marin Rock Co., San Anselmo, (b) $44,135, (c) $39,748; Commary Peterson Co., San Francisco, (b) $46,710, (c) $42,590; Ranson & Grummey, Oakland, (b) $48,600; Petersen & Grier, San Francisco, (b) $51,929, (c) $41,815; Tieslau Bros., San Francisco, (b) $59,403, (c) $46,542; Raisch Improvement Co., San Francisco, (b) $45,884; Blanchard-Brown Co., San Francisco, (b) $54,882, (c) $43,284; M. Blumenkranz, Davis, (c) $43,581; Spring Construction Co., Berkeley, (c) $35,884; H. G. Vaughan Construction Co., San Francisco, (c) $34,486; Parrott Bros. Co., Salt Lake City, Utah, (c) $37,857; P. H. Hoare, Oakland, (c) $43,471; W. B. Hunt & Sons, Alameda, (c) $39,230; W. J. Schmidt, Berkeley, (c) $41,138. Noted July 8.

✚**San Diego, Calif.**—The contract for improving 30th St. from University to El Cajon Ave. has been awarded to G. R. DALEY, at $6804.

**Sanger, Calif.**—Bids were received July 15 by the City Council for paving two miles of streets from J. W. Haynes, Oakland, $19,953 and Thompson Bros., Fresno, $18,765.

✚**Oshawa, Ont.**—A contract for constructing concrete pavements has been awarded to DREW & FLINTOFF.

## INDUSTRIAL WORKS

**Boston, Mass.**—F. C. Larkin will build an eight-story, 70x100-ft., brick and steel warehouse at Berkeley and Stuart St. Densmore & Le Clear, 88 Broad St., is Engr.

✚**Leicester, Mass.**—EDWARD D. WARD, Worcester, Mass., has been awarded the contract for the construction of a three-story, 24x74-ft. addition to the plant of the L. S. Watson Mfg. Co. The estimated cost is $20,000. Cutting, Carleton & Cutting, Worcester, Mass., is Arch.

✚**Quincy, Mass.**—The Fore River Shipbuilding Co. has awarded the contract for the construction of a two-story, 185x779-ft. building on Howard St. to the ABERTHAW CONSTRUCTION CO. The estimated cost is $400,000. Noted July 22.

✚**West Groton, Mass.**—The Groton Leatherboard Co., 16 State St., Boston, Mass., has awarded the contract for the construction of a two-story, 75x140-ft. mill to the BOYLSTON CONSTRUCTION CO., 1126 Boylston St., Boston, Mass. I. W. Jones, Milton, M. H., is Engr.

✚**West Springfield, Mass.**—The Gilbert & Barker Co. has awarded the contract to the CASPER RANGER CONSTRUCTION CO., Holyoke, Mass., for the construction of a two-story, 63x100-ft. addition to its machine shop, a two-story, 27x32-ft. addition to its testing department, and a 40x80-ft. addition to its factory.

✚**Worcester, Mass.**—The BARROWS-STEWART CONSTRUCTION CO., 40 Central St., Boston, Mass., has been awarded the contract for the construction of two additional stories to the 60x154-ft., brick and steel main building of the plant of the R. B. Philips Mfg. Co.

✚**Hartford, Conn.**—(Official)—Ford, Buck & Sheldon, Inc., Engr., 60 Prospect St., has awarded the contract for the construction of a one-story, 55x320-ft. factory on Homestead Ave. to the JAMES H. GROZIER CO., for the Hartford Special Machinery Co., 734 Main St. Noted July 22.

✚**New Haven, Conn.**—The Winchester Repeating Arms Co. has awarded the contract for the construction of a four-story factory and two-story addition to its plant to the WESTINGHOUSE-CHURCH-KERR CO., New York, N. Y. The estimated cost is $314,000.

✚**Waterbury, Conn.**—The Scoville Mfg. Co. has awarded the contract for the construction of a five-story factory at East Main St. and Hamilton Ave. to the TURNER CONSTRUCTION CO., 11 Broadway, New York, N. Y.

✚**Buffalo, N. Y.**—The Danahy Packing Co. has awarded the contract to the LACKAWANNA BRIDGE CO. for the construction of a cooling building at its plant at Metcalfe St. and the N. Y. C. R.R. tracks. The estimated cost is $25,000.

✚**Buffalo, N. Y.**—THE EASTERN CONCRETE STEEL CO. has been awarded the contract for the construction of a reinforced-concrete mill and elevator at Toisul Rd. and the N. Y. C. R.R. tracks for the Clover Leaf Milling Co. Noted June 24.

✚**New York, N. Y.**—(Borough of Queens)—The AMERICAN CONCRETE STEEL CO., 31 Clinton St., Newark, N. J., has been awarded the contract for the construction of a four-story, 80x100-ft. factory for the Degnon Realty & Terminal Improvement Co., 30 East 42nd St. (Borough of Manhattan) William Higginson, 13 Park Row (Borough of Manhattan) is Arch.

✚**Rochester, N. Y.**—The contract for the construction of a concrete warehouse for Brewster, Gordon & Co., has been awarded to R. K. FENNO. Foster & Gade is Arch. Estimated cost, $136,000. Noted July 15.

**Syracuse, N. Y.**—Bids are being received by Edward Howard & Son, Arch., for the construction of a one-story, 61x122-ft. refrigerating building, garage and office for the Fleischmann Co. Robert Embleton, 701 Washington Ave., New York, N. Y., is Mgr. The estimated cost is $20,000.

**Syracuse, N. Y.**—Bids are being received by Gordon Wright, Arch., Union Bldg., for the construction of a three-story, 60x175-ft. factory for Samuel Shapiro, 581 South Clinton St. The estimated cost is $20,000.

✚**Syracuse, N. Y.**—The H. H. Franklin Mfg. Co., 722 Gifford St., has awarded the contract for the construction of a four-story, 153x60-ft. factory to the W. J. BURNS CO.

**Bayonne, N. J.**—The Standard Oil Co. plans the construction of a $40,000 storage plant.

**Newark, N. J.**—Marshall N. Shoemaker, Engr., 9 Clinton St., has awarded the contract to the BECKER CONSTRUCTION CO., 361 Grove St., at $28,550, for the rebuilding of the leather factory of George Stengel, Inc. Noted July 1.

✚**Riverside, N. J.**—William F. Taubel has awarded to H. B. MILLER, Beverly, N. J., the contract for the construction of a three-story, 50x120-ft. factory to cost $35,000. W. U. Jury, Shamokin, Penn., is Arch.

✚**Philadelphia, Penn.**—The contract for the construction of an addition to the factory of H. A. Romberger, Bourse Bldg., has been awarded to JOHN N. GILL & CO., Held Bldg. E. T. Bertolett and Raymond Mathews, 1614 Cherry St., are Archs. The estimated cost is $12,000.

**Pittsburgh, Penn.**—The Union Storage Co. will build an eight-story, cold-storage warehouse on Smallman St., to cost $500,000.

✚**Pittsburgh, Penn.**—William Beckett, 6887 Hamilton Ave., has awarded the contract for the construction of a one-story, 50x100-ft. commercial garage to WALKER & CARLEY, Bessemer Bldg. H. Viehman, Hays Ave., Carrick, Penn., is Arch. The estimated cost is $10,000.

**Reading, Penn.**—William S. Markley, 236 High St., has purchased a site at Penn and Queen St., and will build a $50,000 plant.

✚**Baltimore, Md.**—The Poehlman Auto Co., 1107 Cathedral St., has awarded the contract for the construction of a four-story, 45x70-ft. garage to the COWAN BUILDING CO., 106 West Madison St. Wyatt & Nolting, Keyser Bldg., is Arch. The estimated cost is $20,000.

**Longisland, N. C.**—The Longisland Mills, will enlarge and improve its plant, at an estimated cost of $20,000.

**Worth, N. C.**—The cotton mill of the Harden Mfg. Co., recently destroyed by fire, will be rebuilt. The loss was $175,000.

✚**West Point, Ga.**—The contract for the construction of a three-story cotton mill for George H. Lanier, has been awarded to the GALLIVAN BUILDING CO., Greenville, S. D. Estimated cost, $500,000.

**Jacksonville, Fla.**—The Ford Motor Co., Detroit, Mich., will establish an automobile assembling plant at Ocean and Church St.

**New Orleans, La.**—The National Fish, Game, Produce & Ice Co. will build two cold-storage plants, to cost about $100,000.

**Chattanooga, Tenn.**—The Parish Coffee Co. will build a three-story, brick factory on Rossville Blvd., to cost between $15,000 and $18,000.

**Nashville, Tenn.**—The Ford Motor Co., Detroit, Mich., will establish a branch factory.

✚**Akron, Ohio**—The B. F. Goodrich Co. has awarded to the CARMICHAEL CONSTRUCTION CO. the contract for the construction of a five-story, 200x200-ft., reinforced-concrete factory to cost about $500,000.

✚**Cleveland, Ohio**—The Musterole Co., 4612 St. Clair Ave., has awarded the contract for the construction of a three-story, 65x100-ft. factory to SAMUEL AUSTIN & SON CO., 14-230 Euclid Ave. The estimated cost is $40,000.

✚**Cleveland, Ohio**—The contract for the construction of a two-story 80x200-ft. factory on Grant Ave., for the Cleveland White Metal Co. has been awarded to the A. B. LOOMIS CONSTRUCTION CO. The W. F. Ferguson Co., 1900 Euclid Ave., is Arch. Estimated cost, $75,000. Noted July 15.

**Fremont, Ohio**—The Herband Co. plans the construction of a $20,000 addition to its plant.

**Toledo, Ohio**—Plans have been prepared by Thomas F. Huber, Arch., for the construction of a three-story building at Canton and Shepard St. for the American Plumbers Supply Co. The estimated cost is $40,000.

✚**Toledo, Ohio**—The contract for the construction of a coke oven plant on Front St., for the Toledo Furnace Co., has been awarded to the H. KOPPENS CO., Pittsburgh, Penn., at $145,000.

**Youngstown, Ohio**—The Republic Iron & Steel Co. will expend $1,000,000 for the construction of an addition to its plant. Thomas J. Bray is Pres.

**Muncie, Ind.**—Ball Bros. will build a two-story addition to its plant, to cost $75,000.

✚**Detroit, Mich.**—The Chalmers Motor Co., Jefferson Ave., has awarded the contract for the construction of a four-story, 80x95-ft. addition to its factory to H. G. CHRISTMAN, South Bend, Ind. Kahn & Wilby, 58 La Fayette Ave., is Arch.

✚**Detroit, Mich.**—(Official)—The Aluminum Castings Co. has awarded the contract to MARTIN N. BURKHEISER, 660 Ellery St., for the construction of a $25,000 machine shop. The Forest City Engineering Co., 512 Hippodrome Bldg., Cleveland, Ohio, is Arch. Noted July 22.

✚**Detroit, Mich.**—The contract for the construction of a four-story factory, and a forge shop, at Clark Ave., and the Wabash R.R., for the Timken-Detroit Axle Co., has been awarded to the GEORGE A. FULLER CO. Nettleton & Weaver is Arch. Estimated cost, $60,000. Noted July 15.

✚**Chicago, Ill.**—The contract for the construction of a seven-story, 100x150-ft. paper mill for the Bermingham & Seaman Co., 7 South Dearborn St. has been awarded to the O. W. ROSENTHAL CO., 80 East Jackson Blvd. The estimated cost is $150,000. Paul Gerhardt, 64 West Randolph St., is Arch. Noted July 1.

✚**Milwaukee, Wis.**—The Ford Motor Co., Detroit, Mich., has awarded the contract for the construction of a plant at Prospect Ave. and Kenilworth Pl., to the O. H. BOSSERT CO., 848 Jackson St. The estimated cost is $275,000. Noted May 20.

**Racine, Wis.**—The Hamilton Beach Mfg. Co., will build an addition to its plant to cost $30,000.

**Kansas City, Kan.**—Plans have been prepared by the Heidenrich Engineering Co., 714 Dwight Bldg., Kansas City, Mo., for the construction of a reinforced-concrete grain elevator, to have a capacity of 1,000,000 bu. for the Union Pacific R.R. Co. The estimated cost is $250,000.

✚**Kansas City, Mo.**—The contract for the construction of a 700,000-bu., reinforced-concrete grain elevator at North Topping Ave. and the Kansas City Southern R.R. tracks for the Norris Grain Co., 612 Board of Trade Bldg., has been awarded to the BURRELL ENGINEERING & CONSTRUCTION CO. The estimated cost is $200,000.

**Houston, Tex.**—The Farmers' Warehouse Corporation will build a warehouse to cost about $25,000. H. T. Williams is interested.

**Oklahoma City, Okla.**—The Ford Motor Co., Detroit, Mich., will build an automobile assembling plant at Main and Grand St., and the St. Louis & San Francisco R.R.

**Eureka, Utah**—The Union Grain Elevator Co., will build a 50,000 bu. grain elevator, to cost $15,000. J. Knight is Pres.

✚**New Westminster, B. C.**—The contract for the construction of a $30,000 building on Front St. for the Brackman-Ker Milling Co. has been awarded to F. T. SHERBORNE, Metropolitan Bldg., Vancouver, B. C.

**Prince Rupert, B. C.**—George L. Clayton will build a cold-storage plant to cost $150,000.

## FEDERAL GOVERNMENT WORK

**Dredging**—New York, N. Y.—(Borough of Queens)—(Official)—The following are the bids received for dredging in Newtown Creek: Maryland Dredging & Contracting Co., 1515 Fidelity Bldg., Baltimore, Md., 27c. per cu.yd. (scow measurement); Morris & Cummins Dredging Co., 32c.; P. Sanford Ross, Inc., 26½c.; R. G. Packard Co., 38c.; John A. Seeley, 27½c.; Coastwise Dredging Co., 29½c. Noted June 3.

**Building**—New York, N. Y.—Bids were received June 26 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of a contagious diseases building at Naval Hospital, New York, as follows: John J. Hearn Construction Co., 67 West 46th St., New York, $18,600; J. Kresse Co., 32 Vanderbilt Ave., New York, $18,450; R. C. Emmons, 6406 Third Ave., Brooklyn, $18,373; John F. Kuhn, 328 East 51st St., New York, $23,875; R. H. Brown, Inc., 350 Fulton St., New York, $18,810; Riverside Construction Co., 39 Cortlandt St., New York, $14,733; Thomas J. Brady, Jr., Construction Co., 1170 Broadway, New York, $35,460; Simon Russek, Inc., 261 Broadway, New York, $19,237; Hermanns, Madden & Co., 103 Park Ave., New York, $19,422; Neptune B. Smyth, 413 East 34th St., $23,513; James F. McFerran, 129 West 42nd St., New York, $16,881; William H. Egan, 147 East 125th St., $24,744; M. J. Marshall, 1123 Broadway, New York, $21,589; Lewis J. Sieling, 171 Madison Ave., New York, $16,835; Jersey City Construction Co., 75 Montgomery St., Jersey City, N. J., $34,010; B. Diamond, 12 Bergen St., Brooklyn, $15,612; James McArthur Co., 22 Ormond St., Brooklyn, $23,722. Noted June 3.

★**Buildings**—Pittsburgh, Penn.—(Official)—Bids will be received until noon, Aug. 25, at the U. S. Engineer Office, for building two brick lockkeeper's houses at Dam No. 10, Ohio River.

★**Bridge and Trestles**—Pittsburgh, Penn.—(Official)—Bids will be received at the U. S. Engineer Office until noon, Aug. 26, for furnishing and delivering a service bridge and Poiree trestles at Dam No. 10, Ohio River.

★**Air Compressors**—Pittsburgh, Penn.—(Official)—Bids will be received at the U. S. Engineer Office until Aug. 21 for furnishing and installing air compressors, gas engine, turbine, electric light plant, etc., at Lock 6, Monongahela River.

★**Lock Gates, Etc.**—Pittsburgh, Penn.—(Official)—Bids will be received until noon, Aug. 21, at the U. S. Engineer Office, for furnishing and erecting steel lock gates and furnishing valves and lock operating machinery, at Lock 6, Monongahela River.

**Mechanical Equipment**—Washington, D. C.—The following are the bids received for furnishing the mechanical equipment in the Interior Department office building, (a) heating; (b) plumbing; (c) conduit and wiring: William Gordon Corporation, 107 W. 13th St., New York, N. Y., (a) $80,000; (b) $94,000, (c) $63,213; W. G. Cornell Co., (a) $80,829, (b) $99,510, (c) $67,410; Lord Electric Co., (a) $64,800, (b) $94,600, (c) $89,442; Standard Engineering Co., (a) $78,000, (b) $97,500, (c) $74,350; Hanley-Casey Mechanical Equipment Co., (a) $85,000, (b) $110,000, (c) $83,000; Thompson-Starrett Co., (a) $83,000, (b) $120,000, (c) $77,000; S. Faith & Co., (a) $90,000, (b) $111,500, (c) $79,271; Fitzpatrick & Hoepfner, (a) $78,000, (b) $104,000, (c) $75,000; Isadore Freund, (a) $89,000, (b) $129,500, (c) $70,966; L. K. Comstock & Co., (a) $90,947, (b) $125,000, (c) $78,357; John W. Danforth Co., (a) $103,000, (b) $116,000, (c) $81,000; Crook, Kries & Co., (a) $86,285, (b) $122,716, (c) $97,295; G. A. Kees Domestic Engineering Co., (a) $105,000, (b) $117,746, (c) $97,000; Warner & Chambers, (a) $114,390, (b) $135,000, (c) $86,500; Chris Irving Plumbing & Heating Co., (a) $157,544, (b) $208,756, (c) $232,300.

**Lock Gates**—Wilmington, N. C.—(Official)—The following are the bids received for erecting lock gates, opened July 19, at the U. S. Engineer Office: Lawrence D. Weaning, Cleveland, Ohio, $10,800; Independent Bridge Co., $11,084; Riter-Conley Mfg. Co., $9,460; Penn Bridge Co., $10,300; Stacey-Schmidt Mfg. Co., $9500; Chicago Bridge & Iron Works, $11,200; Whitehead & Kales Iron Works, $10,732; Wilmington Iron Works, $14,977; McMyler Interstate Co., $21,370. Noted June 24.

★**Derrick Boat**—Washington, D. C.—(Official)—Bids will be received at the U. S. Engineer Office until noon, Aug. 23, for furnishing steel derrick boat complete with machinery and equipment.

**Repairs to Jetties**—Wilmington, Del.—Bids will be received at the U. S. Engineers Office, Old Federal Bldg., until 11 a.m., Aug. 20, for furnishing and placing stone for repairs of jetties at Cold Spring Inlet, N. J.

★**Post Office**—Charlotte, N. C.—Bids were received July 2, by the Acting Supervising Architect, Treasury Dept., Washington, D. C., for the construction of a post office at Charlotte, as follows: (a) light-colored marble, (b) light-colored granite: Norcross Bros., Worcester, Mass., (a) $26,700, (b) $27,300; J. S. Rogers Co., Moorestown, N. J., (a) $264,613, (b) $275,500; P. F. Gormeley Co., Washington, D. C., (a) $243,000, (b) $253,000; Travers Wood Co., Richmond, Va., (a) $247,400, (b) $258,000; J. A. Jones, Charlotte, (a) $257,634, (b) $265,750; Westchester Engineering Co., White Plains, N. Y., (a) $243,000, (b) $266,000; James Devault, Canton, Ohio, (a) $267,000, (b) $233,000 (limestone); Thomas W. Cissell, Wooster, Ohio, (a) $245,700, (b) $256,000; M. Yeager & Co., Danville, Ill., (a) $247,905; Torbert Construction Co., Philadelphia, Penn., (a) $247,676, (b) $257,976; John G. Unkefer & Co., Minerva, Ohio, (a) $242,294, (b) $253,294; W. H. Fissell & Co., New York, N. Y., (a) $246,000, (b) $261,755; Barnes Bros., Logansport, Ind., (a) $240,000, (b) $249,000; Wise Granite & Construction Co., Richmond, Va., (a) $262,800, (b) $265,000; William H. Maxwell, Bangor, Maine, (a) $275,184, $274,484 (Vermont marble); (b) $285,144; Boyle-Robinson Construction Co., Washington, D. C., (a) $249,981, (b) $268,781. Noted May 27.

**Dredging**—Grand Marais, Mich.—The following are the bids received for dredging 30,000 cu.yd. at Grand Marais, opened at Duluth, Minn., July 15 by Maj. E. D. Peek: Zenith Dredge Co., Duluth, Minn., 30c. per cu.yd.; Great Lakes Duluth-Superior Dredging Co., Duluth, Minn., 194-5c.; North-Dredge & Dock Co., Alworth Bldg., Duluth, Minn., 20.3c.; ern Dredge & Dock Co., Duluth, Minn., 20½c.

**Post Office**—Beardstown, Ill.—Bids were received July 9, by the Supervising Architect, Treasury Department, Washington, D. C., for the construction of a post office at Beardstown, (a) limestone, (b) sandstone as follows: Rogers & Kaiser, Chicago, (a) $45,795, (b) $46,800; Clarke Construction Co., Danville, (a) $40,985; Callahan-Mandl Co., Chicago, (a) $43,252; W. G. Carter Co., Chicago, (a) $41,968, (b) $42,318; R. S. Moore, Lafayette, Ind., (a) $44,679, (b) $45,180; Frank J. Griffey & Son, Kansas City, Mo., (a) $49,615; Christ Kanzler & Son, Evansville, Ind., (a) $49,900, (b) $50,300; Hiram Lloyd Building & Construction Co., St. Louis, Mo., (a) $43,337; (b) $43,737; Thomas W. Cissel, Wooster, Ohio, (a) $545,993, (b) $46,293; E. A. Steininger Construction Co., St. Louis, Mo., (a) $43,173; George W. Stiles Construction Co., Chicago, (a) $42,886; Colonial Construction & Supply Co., Charlottesville, Va., (a) $42,578, (b) $42,860; George A. Shaul, Seneca, Kan., (a) $41,794; John Lauritzen, Fergus Falls, Mont., (a) $39,990; Thomas G. Gage Co., Chicago, (a) $43,000 and Potters Lumber Co., East Liverpool, Ohio, (a) $44,785, (b) $45,700. Noted June 3.

★**Dredging**—Chicago, Ill.—(Official)—Bids will be received at the U. S. Engineer Office, Federal Bldg., until 10 a.m., Aug. 17, for dredging in Calumet River.

**Post Office**—Des Moines, Iowa—The following bids were received July 8, by the Supervising Architect, Treasury Dept., Washington, D. C., for remodelling the post office at Des Moines; Grohne Decorating Co., Joliet, Ill., $14,390; Charles Weitz Sons, Des Moines, $10,360; Frank M. Weakley, Portsmouth, Va., $15,229. Noted Apr. 22 and June 3.

**Earthwork**—Saco, Mont.—(Official)—Bids will be received at the office of the U. S. Reclamation Service, Malta, Mont., until 2 p.m., Aug. 12, for about 355,000 cu.yd. of canal excavation. The work is located from three to 10 miles from Saco, Mont., on the Great Northern Ry.

**Pumping Plant**—Ft. Bliss, Tex.—Preliminary plans are reported ready and bids will soon be asked by the War Department, for the construction of a pumping plant. The estimated cost is $45,000.

✚**Post Office**—Narmion, Tex.—The contract for the construction of the post office at Narmion, has been awarded to VOLNEY E. TAYLOR, Huntington, W. Va., at $45,950.

**Extension to Jetties**—Portland, Ore.—The following are the bids received at the U. S. Engineer Office for the extension to the north and south jetties at Suislaw: Miami Quarry Co., Selling Bldg., $176,416; I. N. Day, $183,613; Porter Bros., $187,283; Peers Building Co., $176,994; Johnson-Anderson Co., $181,560.

**Addition to Building**—Salem, Ore.—The following bids were received by the Commissioner of Indian Affairs, Washington, D. C., for the construction of an addition to the brick assembly hall at the Salem Indian School: L. C. Denison, 185 South 19th St., Salem, $10,719; Siewert & Engstrom, $12,927; W. D. Lovell, $18,500; Southwick & Headrick, $13,597; John Almeter, $13,829. Noted July 14.

## MISCELLANEOUS

**Coal-Handling Plant**—Portland, Me.—A coal-handling plant to have a storage capacity of 25,000 tons will be built at Portland by the Pocahontas Fuel Co., 1 Broadway, New York, N. Y.

✚**Coal Pocket**—Boston, Mass.—The contract for the construction of a concrete coal pocket on Hilton St. for Batchelder Bros., 10 Post-Office Sq., has been awarded to W. A. MORTON CO., South Boston. J. H. Proctor & Co., Old South Bldg., is Engr.

★**Barge Canal Work**—Albany, N. Y.—Bids will be received by W. W. Witherspoon, Supt. of Pub. Wks., Capitol, Albany, until noon, Aug. 17, for constructing under Terminal Contract No. 37, a harbor and dockwall on the south side of the Mohawk River at Canajoharie, and under Terminal Contract No. 46, a dockwall and approach on the south side of the Seneca River, west of the Weedsport Bridge.

**Dock**—Buffalo, N. Y.—According to press reports the New York Central R.R. Co. will soon award a contract for the construction of a concrete dock on the Buffalo River, estimated to cost $30,000.

**Motor Fire Apparatus**—Geneva, N. Y.—The Common Council has voted to hold a special election on Aug. 4, for the purpose of voting on an expenditure of $18,500 for the purchase of motor fire apparatus.

**Station Finish**—New York, N. Y.—(Borough of Bronx)—(Official)—Bids will be received by the Public Service Commission, until 12:15 p.m., Aug. 18, for the construction of station finish for 23 stations on the Seventh Ave.-Lexington Ave. and White Plains Rd. Rapid Transit Railroads in the Bronx.

✚**Dredging**—New York, N. Y.—(Borough of Brooklyn)—(Official)—The contract for dredging in Mill basin, Jamaica Bay, has been awarded to the ATLANTIC GULF & PACIFIC CO., 13 Park Row, New York, at 0.05c. per cu.yd. Noted July 15 and 22.

✚**Pier**—New York, N. Y.—(Borough of Brooklyn)—(Official)—The contract for building a pier near the foot of 35th St. has been awarded to G. B. SPEARIN, 90 West St., New York, at $310,201. Noted July 22.

★✚**Subway**—New York, N. Y.—(Borough of Brooklyn)—(Official)—The contract for constructing a three-track elevated railroad beginning at a point near 38th St. and 10th Ave. and extending thence to 10th Ave.; thence over 10th Ave. and New Utrecht Ave. to a point at or near 81st. thence to a point in 86th St. to a point at or near Bay 41st St.; thence over 26th Ave. to Stillwell Ave.; and thence over Stillwell Ave. to a point at or near Ave. Y has been awarded to WARD & TULLEY at $71,355. Noted June 24 and July 22.

**Dredging**—New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by L. H. Pounds, Borough Pres., until 11 a.m., Aug. 4, for dredging Newtown Creek Canal at and in the canal and basin included within the boundaries of Johnson Ave., Montrose Ave., Morgan Ave., Varick Ave., and also in the Stagg St. Basin, and in Newton Creek near the intersection of Scott and Metropolitan Ave.

★**Subway**—New York, N. Y.—(Borough of Brooklyn)——The following are the unofficial totals of bids received by the Public Service Commission for the construction of Section No. 3, Route No. 12, of the Eastern Parkway Subway: Rodgers & Hagerty, Inc., 152nd St. and Harlem River, New York, $2,170,000; W. H. Gahagen, Inc., $2,200,000; T. A. Gillespie Co., $2,203,000; Charles Cooper, $2,204,000; Battery Engineering & Construction Co. and Fraser, Burchenell Co., $2,260,000; Dock Contractor Co., $2,294,000; A. L. Guidone & Son, Inc., $2,296,000; Mason & Hanger Co., $2,333,000; Connex Engineering & Construction Co., $2,424,000; James E. Gaffney, $2,438,000; Degnon Contracting Co., $2,544,000; John J. Creem, $3,196,000. Noted July 15.

**Lamp Posts**—New York, N. Y.—(Borough of Manhattan)—(Official)—The following are the bids received by the Department of Water Supply, Gas and Electricity on July 19, for furnishing and delivering cast-iron lamp posts with steel shafts: J. Fox & Co., $48,300; Hecla, Winslow & Co., Inc., $64,750; Western Electric Co., $50,167; J. L. Mott Co., 118 5th Ave., New York, $39,568.

✚**Open-Hearth Rails**—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for furnishing and supplying open-hearth rails for use on the construction of the Rapid Transit Railroads has been awarded by the Public Service Commission to the BETHLEHEM STEEL PRODUCTS CO. Noted July 8 and 22.

✚**Motor Fire Apparatus**—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for furnishing and delivering 24 motor-driven hose wagons under three separate contracts, has been awarded to the INTERNATIONAL MOTOR CO., 64th St. and West End Ave., New York, at $86,814. Noted July 1 and 15.

✚**Motor Fire Apparatus**—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for furnishing and applying 26 two-wheel gasoline-driven tractors, 16 for fire engines and 10 for hook and ladder trucks, has been awarded to the FRONT DRIVE MOTOR CO., Willow Ave., Hoboken, N. J., at $82,680. Noted June 17, 24 and July 8.

**Automobile Runabouts**—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids were received by Robert Adamson, Fire Comr., for furnishing and delivering 20 automobile runabouts from the Ford Motor Co., 1723 Broadway, New York, at $8465, and the Maxwell Motor Co., at $10,000. Noted July 22.

✚**Fire Hose**—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for furnishing and delivering 20,000 ft. of 2½-in. and 10,000 ft. of 1½-in. cotton rubber lined hose has been awarded to the EMPIRE RUBBER & TIRE CO., 19 Warren St., New York, at $13,756. Noted July 8.

★**Subway**—New York, N. Y.—(Borough of Manhattan)——The following are the unofficial totals of bids received by the Public Service Commission for the construction of Section No. 3, Routes Nos. 4 and 36, a part of the Broadway Subway lying between 38th and 51st St.: Holbrook, Cabot & Rollins Corporation, 52 Vanderbilt Ave., New York, $3,741,000; Rodgers & Haggerty, Inc., $3,754,000; Smith, Hauser & McIsaacs, $3,814,000; MacArthur Bros. Co., $3,959,000; Underpinning & Foundation Co., $3,987,000; Oscar Daniels Co., $3,953,516; Degnon Contracting Co., $4,162,920; T. A. Gillespie Co., $4,230,000; Rapid Transit Subway Construction Co., $4,444,000. Noted July 15.

**Piles**—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by R. A. C. Smith, Comr. of Docks, Pier A, Battery Pl., until noon, Aug. 5, for furnishing and delivering piles.

**Track Materials**—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by the Public Ser-

vice Commission, until 12:15 p.m., Aug. 18, for furnishing track materials for use in the construction of Rapid Transit Railroads.

**Track Supplies**—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by the Public Service Commission, 154 Nassau St., until Aug. 18, for the supply of special work (frogs and switches), Order No. 3, for use on the construction of Rapid Transit Railroads.

**Conduits and Subway Work**—Utica, N. Y.—According to press reports, bonds for $53,000 will be sold for constructing conduits and for draining and improving subways. A. M. Burke is City Comptroller.

**Elimination of Grade Crossing.**—Arlington, N. J.—Thomas J. Wasser, County Engr., Jersey City, is preparing plans for eliminating the grade-crossing of the New York & Greenwood Lake Branch of the Erie R.R. at Arlington.

✚**Dredging**—Philadelphia, Penn.—According to press reports the contract for dredging in preparation for the site of the first of the Moyamensing piers has been awarded to the AMERICAN DREDGING CO., at 14.4c. per cu.yd. for removing the material and depositing it above the high-water mark within the city limits. Noted June 24 and July 22.

**Dock**—Bayonne, N. J.—The Standard Oil Co. will erect a dock to cost about $65,000.

**Swimming Pool**—Cumberland, Md.—M. J. Clark, 10 North Liberty St., is interested in the construction of the proposed swimming pool in Amusement Park.

**Causeway**—Fairmont, W. Va.—According to press reports, a causeway will be built across Coal Run ravine to connect Main St. and Fairmont Ave. John R. Bennett and C. D. Robinson are interested. The estimated cost is about $500,000. Albert J. Kern, City Clk., is interested.

**Elimination of Grade Crossing**—Atlanta, Ga.—Plans are being prepared by the City Construction Department, for eliminating the grade crossing at Angier and Bellgrade Ave., at the Southern R.R. The estimated cost is $50,000.

**Drainage**—Bradentown, Fla.—According to press reports, bids will be received by Aug. 4 by the County Commissioners for about 896,202 cu.yd. of excavation for the Gamble Creek Drainage District. Charles S. Hill, P.O.B. 83, Palmetto, is Engr.

**Canal**—Parish, Fla.—Bids will be received by the Drainage Commissioners until Aug. 2 for the construction of a drainage system, to cost about $110,000. Noted Feb. 11.

✚**Drainage**—Bucktown, La.—The contract for dredging in Jefferson Drainage District No. 4 has been awarded to G. A. McWILLIAMS, Chicago, Ill., at $35,000.

**Canal**—New Orleans, La.—Bids will soon be asked for the construction of a canal 10 ft. deep, 200 ft. wide at the surface, and 80 ft. wide on the bottom. Ford, Bacon & Davis, Engr. of the Board of Port Commissioners has submitted four plans for approval.

✚**Sprinkler System, Etc.**—New Orleans, La.—(Official)—The contract for the installation of sprinkler equipment and underground water supply system for that portion of the cotton warehouses and terminal, now under construction, has been awarded by the Board of Commissioners to the GENERAL FIRE EXTINGUISHER CO., at $65,275.

★**Levee**—Vicksburg, Miss.—All bids received on July 12 by the Third Mississippi River District for about 1,415,000 cu.yd. of levee work have been rejected. Noted June 24.

**Lumber and Piling**—New Orleans, La.—The lowest bid submitted to the Port Commissioners for furnishing concrete piling was from the Creosoted Wood Block Co., at $79,599. Noted July 1.

✚**Levee**—Hickman, Ky.—Press reports state that the contract for enlarging the Reelfoot levee has been awarded to the BONDURANT CONSTRUCTION CO., Hickman, at about $18,000.

✚**Revetment Wall**—Columbus, Ohio—The contract for constructing the revetment wall has been awarded by the State Department of Public Works to PHILIP KIRSCHNER, 831 Cuyahoga Bldg., Cleveland, at $15,140.

**Motor Fire Apparatus**—Hamilton, Ohio—The City Council contemplates motorizing the fire department at an estimated cost of $50,000. C. E. Deneen is Comr. of Pub. Safety.

**Equipment for Fire Department**—Springfield, Ohio—Bids will be received until noon, Aug. 5, by the Business Manager, for furnishing $40,000 worth of fire equipment.

**Ditch**—Richmond, Ind.—Bids will be received by L. C. Peacock, County Surveyor, until Aug. 5 for constructing Nettle Creek Ditch, about 6½ miles long.

**Drainage**—Bloomington, Ill.—Press reports state that the Blue Ridge Special District has been organized for the purpose of constructing a drainage system in McLean, De Witt and Pratt Counties. Belle & Hare has prepared plans.

**Levee Work**—East St. Louis, Ill.—The contract for constructing an earth levee has been awarded by the Board of Trustees, East Side Levee and Sanitary District, to JOHN KEELEY, East St. Louis, at 36c. per cu.yd. Noted June 24 and July 22.

**Cement**—Burlington, Wis.—(Official)—Bids will be received by the Board of Public Works, until Aug. 7 for furnishing 2600 bbl. of approved portland cement. P. J. Hartgen is City Engr.

**Drainage**—Atlantic, Iowa—Bids will be called for during September by the Commissioners of Cass County for the construction of about 3.2 miles of open ditches, requiring about 125,000 cu.yd. of excavation. J. H. Mayne, Engr., Council Bluffs is preparing plans. Noted June 24 and July 15.

**Motor Fire Apparatus**—Sioux City, S. D.—According to press reports, bids will soon be called by William Sloan, Fire Comr., for furnishing and delivering motor fire apparatus.

**Ditches and Levees**—Tekamah, Neb.—(Official)—Bids will be received by J. J. Breckenridge, Secy., Burt-Washington Drainage Dist., until noon, Aug. 14, for 1,000,000 cu.yd. of diversion ditches and levees. The Towl Engineering Co., National Bank Bldg., Omaha, is Engr.

**Elimination of Grade Crossing**—Kansas City, Mo.—According to press reports, the lowest bid submitted for the construction of the overhead crossing for the Chicago & Alton Ry. at Van Horn Blvd. was from J. T. Coughlin, at $30,196. Noted Mar. 4.

**Dike**—St. Joseph, Mo.—Surveys are being made and plans drawn for the construction of a dike for flood protection at 29th St. and Taraon Ave. Carl P. Hoff is City Engr.

**Levee**—Cummins, Ark.—It is reported that bids will be received until Aug. 2 by G. Waterman, Chn. Linwood and Auburn Levee Board, for constructing 4.2 miles of levee. E. G. Price, Dumas, is Engr.

✚**Levee Work**—Texarkana, Ark.—The contract for levee work in Miller County Levee District No. 1, has been awarded to JAMES T. CONSTANT, Alexandria, La. The estimated cost is $100,000.

✚**Drainage**—Garwood, Tex.—The contract for the construction of 16 miles of drainage ditches, with concrete culverts in Colorado Drainage Dist. No. 1, has been awarded to HOWARD KENYON, 3406 Audubon Pl., Houston, Tex.

**Drainage**—Monte Vista, Colo.—Bids will be received by O. A. Cramer, Secy., Rio Grande Drainage Dist., for constructing 17 miles of drainage outlet ditches. The work requires 325,000 cu.yd. of earth excavation.

**Fire Alarm System**—Phoenix, Ariz.—The contract for furnishing equipment for the proposed extensions to the fire-alarm system, has been awarded by the City Commission, to the STAR ELECTRIC CO., Binghamton, N. Y., at $15,822.

**Dikes**—Kelso, Wash.—At an election to be held soon the citizens will vote on the question of a bond issue, the proceeds of which will be used for the construction of dikes to protect 7000 acres of bottom land.

**Improvements to Fire Department**—Fresno, Calif.—An election will soon be held to vote on the question of issuing $200,000 in bonds for improving the fire department.

✚**Steamer**—San Francisco, Calif.—The Union Oil Co. has awarded a contract for the construction of an oil-carrying tank steamer to the UNION IRON WORKS, at about $1,000,000.

## BUILDINGS

*Other items relative to Building Construction will be found under the following heads: "Industrial Works;" "Federal Government Work" and "Miscellaneous."*

✚**Concord, N. H.**—The contract for the construction of the Plymouth Normal School dormitory has been awarded to B. H. Wiggin & Co., Lowell, Mass., at $57,830.

**Billerica, Mass.**—The town has borrowed of the Central Savings Bank of Lowell, $90,000 for the construction of a new high school.

**Boston, Mass.**—Clarence H. Blackwell, Arch., 20 Beacon St., has completed plans for the construction of a 12-story building for the Pelham Trust Co., at Tremont and Boylston St.

**Boston, Mass.**—Bids will soon be received for the construction of an addition to the high school on Harvard St. The estimated cost is $75,000. Charles R. Greco, 8 Beacon St., is Arch.

**Boston, Mass.**—A Normal Art School is proposed on Commonwealth Ave. and Warren St. Cram & Ferguson, 15 Beacon St., is Arch. Daniel Snedden is Chn. of State Bd. of Education.

**Boston, Mass.**—Bids will be received about Aug. 1 for the construction of a ten-story, brick and steel store and office building on High St., for the High St. Trust. Parker, Thomas & Rice, 110 State St., is Arch. John D. Hardy is Pres.

**Chelsea, Mass.**—The city has appropriated $120,000 for the construction of an addition to Williams School.

**Dedham, Mass.**—Bids will be received until Aug. 3 by the Building Committee for the construction of a high school. Kilham & Hopkins, 9 Park St., Boston, Mass., is the Arch.

✚**Holyoke, Mass.**—A. L. CARREAU, Williamsett, Mass., has been awarded the contract for the construction of a six-story store and office building on High St., to cost $60,000. P. B. Alderman & Co. is Arch.

✚**Holyoke, Mass.**—L. P. TROWBRIDGE has been awarded the contract for the construction of a block at Laurel and Charles St. for M. M. Mahoney.

**Shirley, Mass.**—Bids are being received by Densmore & Le Clair, Arch., 88 Broad St., Boston, Mass., for the construction of an addition to the Industrial School for Boys.

**Southbridge, Mass.**—All bids were rejected and revised bids will be received by the School Commissioners for the construction of a high school.

✚**Webster, Mass.**—THE TORRINGTON CONSTRUCTION CO., Torrington, Conn., has been awarded the contract for the construction of a $90,000 business block for the Corbin Estate.

✚**Worcester, Mass.**—The contract for the construction of a brick church for St. Casimers R. C. Parish has been awarded to E. L. SIMPSON & BROS. CO., Springfield, Mass. The estimated cost is $60,000. W. J. Donoghue, Springfield, Mass., is Arch.

**Worcester, Mass.**—Samuel Wolfson, 74 Providence St., will build a two-story, 62x100-ft. building on Grafton St. to cost $50,000. Edward P. Fitzfierald, State Mutual Bldg., is Arch.

**Providence, R. I.**—Bids will soon be received for the construction of the Beaufort St. school which will contain 19 classrooms and an essembly hall. Murphy, Hindle & Wright, 146 Westminster St., is Arch.

**Albany, N. Y.**—Contracts will be awarded about Aug. 1 by Merrick & Pember, Arch., 51 State St., for the construction of an eight-story, 77x95-ft. apartment at Washington Ave. and Swan St. The estimated cost is $110,000. Noted July 1.

**Buffalo, N. Y.**—The Delaware, Lackawanna & Western R.R. will construct a seven-story terminal building at Main and Ohio St. The estimated cost is $360,000. G. J. Ray, Hoboken, N. J., is Ch. Engr.

**New York, N. Y.**—(Borough of Bronx)—The House of the Holy Comforter plans to construct a modern hospital at the Grand Concourse and 196th St. The cost is estimated at $175,000. John B. Snook & Sons, 261 Broadway, New York, is Arch.

**New York, N. Y.**—(Borough of Brooklyn)—The Brighton Beach Development Co. plans to construct a fireproof hotel at Brighton Beach. Densmore & Le Clear, Arch., 88 Broad St., Boston, Mass., is preparing tentative plans. Chauncey Marshall is Pres. of the company.

**New York, N. Y.**—(Borough of Manhattan)—Plans are being prepared by L. F. J. Weicher, Arch., 271 West 125th St., for the construction of a three-story motion picture theater and office building at 235-37 East 14th St. for the American Movie Co., 111 East Seventh St.

**New York, N. Y.**—(Borough of Manhattan)—Plans are being prepared by Gaetan Ajello, Arch., 1 West 34th St., for the construction of a 12-story 100x100-ft. apartment house at West End Ave. and 103d St. for Paterno Bros. Joseph Paterno, 601 West 115th St., is Pres.

**New York, N. Y.**—(Borough of Manhattan)—(Official)—Bids have been received for the construction and completion of a building at the Gouverneur Hospital, Front St. and Gouveneur Slip, New York, as follows: William H. Egan, Lexington Ave. and 125th St., $168,168; Charles Meade & Co., 38 Park Row, $160,000; John H. Parker Co., 315 Fourth Ave., $144,997; Norcross Bros. Co., 103 Park Ave., $152,900; P. J. Carlin Construction Co., 1123 Broadway, $158,760; P. J. Brennen & Son, 624 Madison Ave., $153,700; Cramp & Co., 25 East 26th St., $160,466; Harby Abroms & Melius, 30 East 42nd St., $158,800; J. T .Brady & Co., 103 Park Ave., $148,840; P. F. Kenny Co., 33 Old Broadway, $160,000; John Kennedy & Co., 1133 Broadway, $159,670; Simon Russek, Inc., 261 Broadway, $169,520.

**New York, N. Y.**—(Borough of Manhattan)—Charles A. Rich and Frederic Mathesuis, Jr., Arch., 320 Fifth Ave., have prepared plans for the construction of a hall to be known as the Students' Bldg., at 119th St. between Broadway and Claremont Ave. for Barnard College. The estimated cost is $600,000. Noted May 27.

**New York, N. Y.**—(Borough of Manhattan)—(Official)—Bids have been received for the construction and completion of the day room and industrial building and for alterations to the ward buildings for women at the New York City Home District, Blackwells Island, as follows: B. Diamond, 12 Bergen St., Brooklyn, $47,200; Charles Mead & Co., 38 Park Row, $53,110; Joseph Kressel Co., 1133 Broadway, $48,400; George L. Hilti Co., 114 East 28th St., $55,936; Albert Winternitz, 237 East 72d St., $49,000; William H. Egan, Lexington Ave. and 125th St., $51,066; William Werner, 657 Vanderbilt Ave., Brooklyn, $58,673; Thomas J. Waters Co., 271 West 125th St., $49,400.

**Rensselaer, N. Y.**—The R. R. Y. M. C. A., 835 Broadway, plans to construct a building to cost about $68,000. A. C. Long is Secy. and Charles Gibson, Orange St. and Broadway, is Chn. of Bldg. Com.

**Rochester, N. Y.**—Plans have been prepared by Claude Bragdon, Arch., 415 Cutler Bldg., for the construction of a two-story, Northwest Branch of the Y. M. C. A. at Driving Park and Lake Ave. Herbert P. Lansdale, Smith Ave., is Chn. of Bldg. Com. Estimated cost, $50,000. Noted June 24.

**Rochester, N. Y.**—Bids will be received about Aug. 15 for the construction of a one- and two-story, 200x250-ft., brick and reinforced-concrete armory with a stable on Culver Rd. Louis F. Pilcher, State Arch., Capitol, Albany, and Walker, Livingston & Bracket, Assoc. Arch., Rochester, have prepared the plans. Noted June 24.

**Schenectady, N. Y.**—The Directors of Union College plan to construct a building to be known as the General Daniel Butterfield Memorial. The estimated cost is $100,000. C. A. Richmond is Pres. of the college.

✚**Syracuse, N. Y.**—The O'BRIEN CONSTRUCTION CO. has been awarded the contract for the construction of a three-story, 63x183-ft. brick and mill constructed building on North State St. for the S. Shapero Co. The estimated cost is $100,000.

**Utica, N. Y.**—The Board of Education has rejected all bids received for the construction of a two-story grade school to be known as the Kernan School in West Utica. Estimated cost, $130,000. Plans will be revised by Gouge & Ames, Arch., 70 Genesee St. Noted May 6 and July 8.

✚**White Plains, N. Y.**—E. T. EGGLESTON, 156 Wadsworth Ave., Yonkers, has been awarded the contract for the wrecking and excavating for the construction of the county courthouse on Main St. between Court and Grand St. for Westchester County. E. E. Seelye, 101 Park Ave., New York, is Structural Engr. The estimated cost of the entire project is $800,000. Noted June 24 and July 15.

**Yorktown, N. Y.**—Lewis F. Pilcher, State Arch., Capitol, Albany, has prepared plans for the construction of additional buildings to the Mohansic State Hospital for the Insane. E. S. Elwood is Secy. of the hospital. The estimated cost is $200,000. Noted under Yorktown Heights, N. Y., June 3.

**Bayonne, N. J.**—The Board of Estimate of the Board of Education has authorized the issuing of $631,000 in bonds for improving the schools of Bayonne. The amount will be used as follows: $200,000 for the construction of buildings to replace Public Schools Nos. 1 and 4; $260,000 for an addition to the high school; $146,000 for a building to replace Public School No. 5. Noted June 24.

✚**Newark, N. J.**—The Petty Estate has awarded the contract for the construction of a six-story store and loft building at Market and Halsey St. to the TRENTON BUILDING & CONSTRUCTION CO. Estimated cost, $98,000. Noted May 6.

✚**Perth Amboy, N. Y.**—(Official)—J. C. FOWLER, 130 Smith St., Perth Amboy, has been awarded the contract for the construction of an addition to the high school on State St. J. N. Pierson & Son is Arch. Noted July 15.

**West Hoboken, N. J.**—Plans are being prepared by Hensel & Feir, Arch., 809 Savoga St., for the construction of a three-story, 50x120-ft. Masonic Temple on Palisade Ave. for the Doric Lodge, F. & A. M. The estimated cost is $40,000. William A. White, Palisade Ave., Weehawken Heights, is Chn. of Bldg. Com.

**Clearfield, Penn.**—The School Board will award contracts about Sept. 1 for the construction of a two-story, 113x138-ft. concrete and brick high school. Estimated cost, $80,000. Harrington & Howard, Arch., Du Bois, prepared the plans. Noted Apr. 29 and July 1.

**Erie, Penn.**—Bonds to the amount of $250,000 have been sold. The proceeds will be used for the construction of a high school on 26th and State St.

**Langhorne, Penn.**—Plans are being prepared for the construction of a college for fatherless girls to be known as the Charles E. Ellis Memorial School. The estimated cost is $3,000,000. The Commonwealth Title, Insurance & Trust Co., 12th and Chestnut St., Philadelphia, is Trustee of the Ellis Estate.

**Philadelphia, Penn.**—Bids will be received until Aug. 31 for the construction of an immigrant station at the Reed St. Yards, South Wharves, for the Pennsylvania R.R. Alex. C. Shand is Ch. Engr. Noted July 22.

**Philadelphia, Penn.**—Bids will soon be received for the construction of a three-story bank and a 20-story office building at 1416-18 Chestnut St. for the Franklin National Bank. The estimated cost is $1,000,000. McKim, Meade & White, 101 Park Ave., New York, N. Y. is Arch. and Furness, Evans & Co., Provident Bldg., Philadelphia, is Assoc. Arch. Noted July 22.

✚**Philadelphia, Penn.**—The contract for the construction of a ten-story, 46x164-ft. addition to the Evening Bulletin Bldg., Juniper & Filbert St., for W. L. McLean, has been awarded to DOYLE & CO., 1519 Sansom St., Philadelphia. Estimated cost, $350,000.

**Philadelphia, Penn.**—Plans are being prepared by Andrew Borgner, Arch., 721 Walnut St., for the construction of a four-story, 128x160-ft. apartment house at Horter and Jefferson St. for Max Lichtenstein. The estimated cost is $150,000.

**Sharon, Penn.**—Wallis & Carley Co. submitted the lowest bid on the general contract for the construction of the three-story, Kimberly Nurses Home adjoining the C. H. Buhl Hospital. C. H. & C. F. Owsley, Youngstown, Ohio, is Arch. Noted Feb. 18.

✚**Wanamie, Penn.**—The School Board of Newport Township has awarded the contract for the construction of an eight-room school to HERMAN MAILANDER, Wilkes-Barre, at $46,986.

**Wilmington, Del.**—A. S. Reed & Bro. Co., Wilmington, at $123,773, submitted the lowest bid on the general contract for the construction of a four-story, 85x183-ft. brick and stone addition to the Wilmington High School at Monroe St. and Delaware Ave. Noted May 6 and July 8.

## RAPID TRANSIT SYSTEM, NEW YORK, N. Y.

### TRACK INSTALLATION

Bids were received July 9 by the Public Service Commission for track laying on the New Utrecht Ave. elevated line from (A) Ward & Tully, Inc., (B) Joseph A. McElroy, (C) W. F. Jordon, (D) Post & McCord, (E) Degnon Contracting Co., (F) Snare & Triest Co., (G) Connex Engineering & Construction Co., (H) Thomas Crimmins Construction Co., (I) Johnson-Gifford Co., (J) Charles Cooper, (K) Holbrook, Cabot & Rollins Corporation and George W. McNulty, (L) Max Raymond, (M) Joseph J. Klein, (N) James S. Frazer. The item bids were as follows:

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 48,770 lin.ft. for installation of hand rail | $0.10 | $0.16 | $0.20 | $0.14 | $0.175 | $0.15 | $0.20 | $0.13 | $0.20 | $0.25 | $0.42 | $0.21 | $0.20 | $0.25 |
| 563 ft. b.m. for installation of plank walks | 11.00 | 10.00 | 12.00 | 14.00 | 18.25 | 10.00 | 25.00 | 20.50 | 22.00 | 19.00 | 28.00 | 25.00 | 20.00 | 15.00 |
| 14,300 for installation of anti-creepers complete | .10 | .10 | .10 | .10 | .11 | .10 | .10 | .12 | .12 | .12½ | .08 | .10 | .08 | .10 |
| 57,300 lin.ft. (a) on tangents and curves of more than 2,000 ft. radius | .60 | .65 | .65 | .70 | .68 | .85 | .75 | .86 | .80 | .75 | .70 | .90 | 1.01 | 1.00 |
| 300 lin.ft. (b) on curves of 2,000 ft. to 701 ft. radius | 1.25 | 1.25 | 1.25 | 1.10 | 1.07 | 1.50 | 1.80 | 1.33 | 1.40 | 1.25 | 1.10 | 1.60 | 1.85 | 1.50 |
| 5,400 lin.ft. (c) on curves of less than 701 ft. radius | 1.55 | 1.45 | 1.30 | 1.40 | 1.07 | 1.55 | 2.00 | 1.33 | 1.65 | 1.25 | 1.40 | 1.80 | 2.00 | 1.75 |
| 14,800 lin.ft. (d) at and adjoining stations | .60 | .65 | .70 | .75 | .80 | .93 | .80 | .86 | .80 | .95 | .80 | 1.00 | 1.25 | 1.50 |
| For installation of special work, portion 35 (lump sum) | 1,000.00 | 800.00 | 840.00 | 1,125.00 | 1,350.00 | 1,500.00 | 1,200.00 | 1,800.00 | 1,600.00 | 2,500.00 | 1,050.00 | 1,500.00 | 950.00 | 1,000.00 |
| For installation of special work, portion 36 | 1,000.00 | 800.00 | 840.00 | 1,125.00 | 1,350.00 | 1,500.00 | 1,200.00 | 1,800.00 | 1,600.00 | 2,500.00 | 1,050.00 | 1,500.00 | 950.00 | 1,000.00 |
| For installation of special work, portion 37 (lump sum) | 1,000.00 | 800.00 | 840.00 | 1,125.00 | 1,350.00 | 1,500.00 | 1,200.00 | 1,800.00 | 1,600.00 | 2,500.00 | 1,050.00 | 1,500.00 | 950.00 | 1,000.00 |
| For installation of special work, portion 38 (lump sum) | 1,000.00 | 800.00 | 840.00 | 1,125.00 | 1,350.00 | 1,500.00 | 1,200.00 | 1,800.00 | 1,600.00 | 2,500.00 | 1,050.00 | 1,500.00 | 1,200.00 | 1,000.00 |
| For installation of special work, portion 39 (lump sum) | 1,300.00 | 600.00 | 925.00 | 1,500.00 | 1,350.00 | 1,650.00 | 1,200.00 | 1,850.00 | 1,600.00 | 2,500.00 | 950.00 | 1,500.00 | 500.00 | 1,000.00 |
| Extended totals | $71,355 | $75,183 | $78,525 | $82,639 | $85,105 | $94,864 | $99,414 | $99,564 | $100,516 | $102,587 | $103,781 | $111,616 | $116,436 | $118,217 |

**Baltimore, Md.**—Bids will soon be received for the construction of an addition to the mechanical laboratory on Monument St. at Johns Hopkins University. The estimated cost is $50,000. Noted July 22.

**Washington, D. C.**—Plans have been prepared by Milburn, Heister & Co., Arch., Union Savings Bank Bldg., for the construction of a nine-story, 121x198-ft. office building at D, E and 13th St. for the Federal City Construction Co. The estimated cost is $950,000. Noted June 24.

**Washington, D. C.**—(Official)—Milburn, Heister & Co., Arch., is preparing plans for the construction of a building on Ninth and Massachusetts Ave. for the American Federation of Labor. Samuel Gompers is Pres. Bids will be received about Aug. 20. Noted July 22.

**✚Richmond, Va.**—The contract for the construction of a two-story brick and concrete school on Chamberlayne Ave. and Myrtle Pl. has been awarded to JOHN T. WILSON CO., Richmond, at $63,430.

**✚Richmond, Va.**—JAMES FOX & SONS, Norfolk, at $48,232, has been awarded the contract for the construction of a 95x114-ft. addition to the Franklin St. School and a 66x96-ft. addition to the Maury St. School. Charles M. Robinson, Inc., is Arch.

**✚Berkeley Springs, W. Va.**—The contract for the construction of a four-story, 56x100-ft. hotel, to be known as Hotel Raleigh, for the Berkeley Hotel Co., has been awarded to CRAISER & FREEMAN, Berkeley Springs. H. F. Wysong, Princeton, is Arch. Noted July 8.

**Durham, N. C.**—(Official)—The Board of County Commissioners of Durham County has commissioned Milburn, Heister & Co., Arch., Washington, D. C., to prepare plans for the construction of a six-story county courthouse and a city and county jail. The cost will be between $200,000 and $250,000. Plans will be ready for bids about Sept. 15. Noted July 22.

**Greensboro, N. C.**—At a recent election the citizens voted in favor of issuing $60,000 in bonds. The proceeds will be used for the construction of schools. Noted Apr. 29.

**Raleigh, N. C.**—The County Commissioners have been petitioned to hold an election to vote on the question of issuing $100,000 in bonds. The proceeds will be used for the construction of schools.

**✚Atlanta, Ga.**—The contract for the construction of a three-story brick apartment building on Peachtree and Fourth St. form R. P. Black has been awarded to the GUDE & CO., Grant Bldg., Atlanta. Estimated cost, $70,000. C. E. Fraser, Candler Bldg., is Arch.

**Atlanta, Ga.**—The Building Committee of the Emory College plans to construct several buildings on the campus. The estimated cost of the entire project is $500,000. A. G. Candler, Sr., is Member of Bldg. Com.

**✚Savannah, Ga.**—The contract for the construction of a Carnegie Public Library has been awarded to A. A. ARTLEY, Savannah. Noted June 17.

**St. Augustine, Fla.**—Bids will be received until noon, Aug. 9, by P. K. Younge, Chn., Bd. of Control of the State of Florida, Mason Hotel, Jacksonville, for the construction of a hospital for negroes at the State School for Deaf and Blind. Edwards & Sayward, 633 Candler Bldg., Atlanta, Ga., is Arch.

**Anniston, Ala.**—L. M. Weathers Co., Arch., Memphis, Tenn., has prepared plans for the construction of a seven-story brick and terra cotta store, office and lodge building for the Anniston Lodge No 443, A. F. & A. M. The estimated cost is $75,000. Noted July 8.

**Nashville, Tenn.**—Bids will be received until 9 a.m., July 31, by John F. Gaffney, Chn., of Davidson County Asylum Comn., 333 Fourth Ave., Nashville, for the construction of two additions to the Davidson County Asylum. Edward E. Dougherty is Arch.

**✚Alliance, Ohio**—The contract for the construction of a Masonic Temple for the Conrad Lodge No. 271, F. & A. M., has been awarded to F. C. KROEMER, Dayton. The estimated cost is $50,000. Noted June 10.

**✚Canton, Ohio**—The contract for the construction of the Henry Martin School has been awarded to the INDIANA ENGINEERING & CONSTRUCTION CO., Ft. Wayne, Ind., at $81,-365. Noted July 1.

**Cincinnati, Ohio**—Work will be started about Oct. 1 on the construction of the East Hill High School. The estimated cost is $1,000,000. Noted July 22.

**Cleveland, Ohio**—Bids will soon be received by Charles S. Schneider, Arch., 2248 Euclid Ave., for the construction of a building at Cedar Rd. and Euclid Blvd. for the Plymouth Congregational Church. Estimated cost, $150,000. Noted May 20.

**Cleveland, Ohio**—An ordinance granting a franchise to the Cleveland & Youngstown R. R. Co. has been passed by the City Council for the construction of freight and passenger terminals in the downtown district. Noted July 1.

**Cleveland, Ohio**—The Trustees of the Jewish Orphans' Asylum plan to construct an addition to the institute which will cost about $1,000,000.

**Columbus, Ohio**—The College of Homeopathic Medicine of the Ohio State University plans to construct a hospital on the campus. Estimated cost, $50,000.

**Columbus, Ohio**—Plans are being prepared for the construction of a hotel on South High St. on the site of the Neil House. The cost will be between $1,500,000 and $2,000,000.

**East Cleveland, Ohio**—Plans have been prepared by A. F. Janowitz, Arch., 323 Permanent Bldg., for the construction of a three-story commercial and apartment building at St. Clair and Hayden Ave. for H. A. Kangesser. Estimated cost, $75,000.

**Lilly Chapel, Ohio**—The citizens of Lilly Chapel and Big Plain have voted in favor of the question of issuing $40,000 in bonds. The proceeds will be used for the construction of a school.

**Steubenville, Ohio**—Peterson & Clark, Arch., has prepared plans for the construction of a brick and terra cotta addition to the Wells High School. The estimated cost is $70,000.

**Wilmington, Ohio**—Bids will be received about Aug. 15 by Weber, Werner & Adkins, 1206 Mercantile Library Bldg., Cincinnati, for the construction of a courthouse at Wilmington. The estimated cost is $300,000. Noted June 17.

**Hammond, Ind.**—Bids will be received until 8 p.m., Aug. 2, by the Board of School Trustees, for the construction of a building to be known as the Hammond Industrial High School Building. J. T. Hutton & Son, Hammond Bldg., is Arch.

**Sanford, Ind.**—Bids will be received until Aug. 3 by Edward B. Martin, Trustee, for the construction of a two-story, 65x80-ft. brick school. Johnson & Miller, Terre Haute, is Arch.

**Ann Arbor, Mich.**—The Trustees of the University of Michigan have accepted plans for the construction of a building for the Michigan Union. The estimated cost is $1,000,000. H. B. Hutchins is Pres. Noted May 13.

**Chicago, Ill.**—Joy Morton, Railway Exchange Bldg., has purchased a site at Washington St. and Fifth Ave., the present site of the Chicago Times Bldg., upon which he will construct a commercial and office building. The estimated cost is $1,000,000.

**✚Chicago, Ill.**—The general contract for the construction of a three-story, 350x700-ft. fireproof museum near 12th St. and the Illinois Central R.R. for the Marshall Field Museum of Natural History has been awarded to the THOMPSON-STARRETT CO., 343 South Dearborn St., Chicago. The estimated cost is $5,100,000. Stanley Field is Pres. Noted Jan. 28.

**Chicago, Ill.**—Fred Becklenberg, 29 South La Salle St., plans to construct a store, theater and office building at Division St. and Washtenaw Ave. The estimated cost is $85,000. Thomas R. Bishop is Arch.

**✚Galesburg, Ill.**—The MONMOUTH-GALESBURG CONSTRUCTION CO., at $40,422, has been awarded the contract for the construction of an armory. Noted June 24.

**Hoyleton, Ill.**—The Directors of the Evangelical Orphans' Home plan to rebuild the home which was destroyed by fire. It will be fireproof and brick and cost about $50,000.

**Princeton, Ill.**—Plans are being prepared by Aldrich & Aldrich, Arch., Galesburg, for the construction of a hotel. The estimated cost is $100,000.

**Rock Island, Ill.**—Plans will be revised by Olof Z. Cervin, Arch., 401 Safety Bldg., for the construction of a three-story school. Noted Mar. 4.

**Urbana, Ill.**—Plans are being prepared by J. M. White, Supervising Arch., at the University of Illinois for the construction of a four-story, 112x168-ft. stone and terra cotta dormitory for girls on Nevada St.

**Appleton, Wis.**—Bids are being received by Cooledge & Hodgson, Arch., 134 South La Salle St., Chicago, Ill., for the construction of a two-story bank building for the Citizens' National Bank. Estimated cost, $65,000. Noted June 10 and 17.

**Eau Claire, Wis.**—(Official)—Bids will be received about Aug. 6 for the construction of a municipal auditorium and city hall. The estimated cost is $50,000. George Awsumb, 14 East Jackson Blvd., Chicago, Ill., is Arch. Noted May 6 and July 15.

**✚Milwaukee, Wis.**—The RAULF CONSTRUCTION CO., Milwaukee, has been awarded the contract for the construction of a theater and commercial building at Downer Ave. and Belleview Pl. for the Read & Nancy Investment Co. Noted June 17.

**✚Milwaukee, Wis.**—The general contract for the construction of an addition to the Merrill Bldg., Second St. near Grand Ave. has been awarded to H. SCHMITT & SONS, 684 Jackson St., Milwaukee. Estimated cost, $125,000. Noted July 22.

**✚Armstrong, Iowa**—The contract for the construction of a three-story, 71x110-ft. grade and high school has been awarded to JOSEPH A. BASS & CO., Faribault, Minn. Estimated cost, $50,000. Alban & Lockhart, Arch., 347 Endicott Bldg., St. Paul, Minn., prepared the plans. Noted June 10 and July 8.

**Grinnell, Iowa**—An election will be held Aug. 16 to vote on the question of issuing $100,000 in bonds, the proceeds of which will be used for the construction of a high school.

**Newton, Iowa**—Bids will soon be received by the Jasper County School Board for the construction of schools at Newton. The estimated cost is $100,000.

**Tipton, Iowa**—At a recent election the citizens voted in favor of issuing $50,000 in bonds. The proceeds will be used for the construction of a county home.

**Minneapolis, Minn.**—Plans are being prepared by A. R. Van Dyck, Arch., 742 McKnight Bldg., for the construction of a three-story, 43x120-ft. hospital for the Maternity Hospital, 2201 Western Ave. The estimated cost is $50,000.

**Lyons, Kan.**—The Methodist Congregation is having plans prepared for the construction of a church. The estimated cost is $40,000. Charles D. Cuthbert, 435 Kansas Ave., Topeka, is Arch.

**Kearney, Neb.**—Bids will be received until 10 a.m., Aug. 3, by the Secretary of the Board of Education of the Nebraska State Normal Schools, Lincoln, Neb., for the construction of an auditorium for the State Normal School at Kearney. J. H. Craddock, 12 Continental Bldg., Omaha, is Arch. Noted Mar. 4.

**North Platte, Neb.**—N. McCabe contemplates the construction of a hotel at North Platte to cost about $45,000.

**Omaha, Neb.**—Plans have been prepared by Burd F. Miller, Arch., Brandeis Theater Bldg., for the construction of a four-story brick and stone business building at 14th and Jones St. for the Goodrich Drug Co., 1310 Harney St. The estimated cost is $75,000. Noted June 24.

**Sioux Falls, S. D.**—E. Jackson Casse Co., Arch., & Engr., 53 West Jackson St., Chicago, Ill., has prepared plans for the construction of a six-story, 66x87-ft. brick and stone, office and bank building at Main Ave. and Ninth St. for the Security Building Co.

**Columbia, Mo.**—The citizens contemplate the construction of a new brick city hall, at an estimated cost of $75,000. James M. Batterton is Mayor.

**✚Kansas City, Mo.**—The contract for the construction of a six-story, 50x115-ft. brick and concrete building at 21st and Grand Ave. for E. W. Shields, Board of Trade Bldg., has been awarded to the SWENSON CONSTRUCTION CO., 625 Finance Bldg., Kansas City. Estimated cost, $100,000. Wilder & Wight, 401 First National Bank Bldg., is Arch.

**Kansas City, Mo.**—Bids will soon be received for the construction of a two-story brick church at Benton Blvd. and Lexington St. for the Church of the Assumption. The estimated cost is $65,000. W. J. Connolly, 3210 Lexington St., is Pastor, and W. Hilton Smith, 518 Massachusetts Bldg., is Arch.

**✚St. Joseph, Mo.**—The contract for the construction of a theater at Seventh and Edmond St. for the Electric Theater Co. has been awarded to HACKETT & SIMPSON, St. Joseph, at $40,000. Carl Boller & Bro., 7 Gayety Theater Bldg., Kansas City, is Arch.

**St. Louis, Mo.**—Bids are being received for the construction of a 115x127-ft. fireproof theater at Ninth and St. Charles St. for the Orpheum Theater Co. of Missouri. The estimated cost is $450,000. Frank Tate is interested. Noted June 17.

**✚Warrensburg, Mo.**—The Board of Regents of the Warrensburg State Normal School has awarded the contract for the construction of the Science Hall to the CAPITAL CITY PLANING MILL CO., Jefferson City. Estimated cost, $64,000.

**Warrensburg, Mo.**—Plans are being prepared for the construction of a training school to cost $50,000 and a main building costing $200,000. E. J. Hendricks is Pres. of the school. Noted May 27.

**Little Rock, Ark.**—The Grand Lodge of the Knights and Daughters of Tabor will construct a temple. Estimated cost, $60,000.

**✚Little Rock, Ark.**—The School Board has awarded the contract for the construction of a two-story brick and terra cotta school to JOHNSON BROS., Little Rock, at $40,000. Thomas Harding is Arch. Noted July 1 and 15.

**College Station, Tex.**—The State Agriculture and Mechanical College will construct a hospital and a dairy barn. The estimated cost of the hospital is $50,000.

**Galveston, Tex.**—George E. Robinson, Galveston, plans to construct an eight-story hotel at Tremont and Postoffice St.

**Tahoka, Tex.**—An election will be held July 31 by the Commissioners' Court of Lynn County to vote on the question of issuing $60,000 in bonds. The proceeds will be used for the construction of a courthouse and jail.

**✚Okmulgee, Okla.**—The Board of Education has awarded the contract for the construction of a three-story, 70x178-ft. high school to the CADDO CONSTRUCTION CO., Okmulgee, at $73,000. Other bidders were: Cashner & Leavengood, Kansas City, Mo., $94,395; A. J. Hingle, Bartlesville, $77,273; L. W. Dumas Construction Co., Richmond, Mo., $75,500; Kreipke & Schaefer, Atchison, Kan., $79,500; A. C. Campbell, Wichita, Kan., $81,100; L. F. Lee, Oklahoma City, $88,000; Lloyd Hiram Construction Co., 404 Odd Fellows Bldg., St. Louis, Mo., $85,867; Reinhardt & Donnovan, Oklahoma City, Okla., $88,200; L. Crosby & Son, 517 Massachusetts Bldg., Kansas City, Mo., $88,975; H. Eilenberger & Co., 60th St. and Swope Parkway, Kansas City, Mo., $92,327; Loftus & Skidmore, P. O. Box 350, Durango, Colo., $93,000. Smith, Rea & Lovitt, 602 Finance Bldg., Kansas City, Mo., is Arch. Noted Apr. 15 and 29.

**Grand Mound, Wash.**—Plans have been prepared by Watson Vernon, Arch., 1 Gabrielson & Holmer Bldg., Aberdeen, for the construction of a new administration building at the State School for Girls, Grand Mound. Estimated cost, $60,000.

**Mt. Vernon, Wash.**—An election was held July 24, by the School Board to vote on the question of issuing $50,000 in bonds. The proceeds will be used for the construction of a school. Stephen & Stephen, 726 New York Blk., Seattle, is Arch. Noted June 24.

**✚Ocean Park, Wash.**—The contract for the construction of a reinforced-concrete theater and dancing pavilion has been awarded to MARTIN & DUGAN, Northern Bank Bldg., Seattle. Estimated cost is $60,000.

**Olympia, Wash.**—Bids will soon be received by the State Board of Control for the construction of two ward buildings for the Northern Hospital for Insane. Heath & Gove, Tacoma, is Arch. The estimated cost is $128,000. Noted Mar. 25.

**✚Seattle, Wash.**—The GRANT, SMITH & CO., Henry Bldg., Seattle, have been awarded the contract for the construction of a 120x240-ft., reinforced-concrete ice arena at Fifth Ave. between University and Seneca St. for the Metropolitan Building Co., White Bldg. Estimated cost, $70,000. Noted July 1.

**✚Seattle, Wash.**—MARTIN & DUGAN, Northern Bank Bldg., Seattle, has been awarded the contract for the construction of a four-story hotel on First Hill for the Quaker Investment Co., Green Bldg. The estimated cost is $80,000. R. Hamilton Towe is Arch.

**Seattle, Wash.**—Bebb & Gould, Arch., Denny Bldg., has prepared plans for the construction of a four-story, 45x108-ft. reinforced-concrete, fireproof, office building on Second Ave. near Virginia St. for the Puget Sound News Co. The estimated cost is $50,000. Noted under "Industrial Works June 17.

**Monmouth, Ore.**—Bids are being received for the construction of a two-story, 84x128-ft. building at the State Normal School. The estimated cost is $60,000. J. V. Bennes, Chamber of Commerce Bldg., is Arch. Noted Jan. 7 and June 17.

**✚Portland, Ore.**—The contract for the construction of a building at the Franklin High School has been awarded to JAMES S. WINTERS, Couch Bldg., Portland, at $74,897. Noted May 20 and July 22.

**Portland, Ore.**—Whitehouse & Fouilhoux, Arch., 809-13 Wilcox Bldg., has prepared preliminary plans for the construction of the public auditorium on the Market Blk. The estimated cost is $600,000. Noted Apr. 15.

**Berkeley, Calif.**—Bids will be received until Aug. 9 for the construction of a four-story, 200x200-ft. building to be known as the Benjamin Ide Wheeler Hall at the University of California. The building will cost about $800,000. Noted June 24.

**Ingleside, Calif.**—(San Francisco post office)—The San Francisco Golf and Country Club will construct a clubhouse. The estimated cost is $500,000.

**Sacramento, Calif.**—Shea & Lofquist, Arch., 742 Market St., San Francisco, has prepared plans for the construction of the Hall of Justice for the city. The estimated cost is $225,000. Noted Nov. 5.

**San Bernardino, Calif.**—The City Council plans to hold an election Sept. 6, to vote on the question of issuing $2[illegible],000 in bonds. The proceeds will be used for the construction of a city hall, municipal auditorium and parks. Noted June 24.

## MADISONVILLE SEWER DISTRICT, CONTRACT NO. 3—CINCINNATI, OHIO

Bids were received July 12 by Philip Fosdick, Dir. of Pub. Ser., for the construction of sewers in the Madisonville Sewer District, Contract No. 3 from (A) Engineering Estimate, (B) Thomas P. Strack, Cincinnati, (C) Thomas Maloney, Cincinnati, (D) Welling & Franz, Cincinnati, (E) Thurber & Browning, Cincinnati. The item bids were as follows:

| Brick | A | B | C | D | E |
|---|---|---|---|---|---|
| 865 lin.ft., 33-in. brick sewer | $5.20 | .... | $4.00 | .... | $6.21 |
| 1140 lin.ft. 42-inbrick sewer | 7.80 | .... | 9.00 | .... | 8.25 |
| 6 manholes (standard) on brick sewer, 4 ft. diameter or less | 75.00 | .... | 75.00 | .... | 75.00 |
| 1 junction chamber (brick or concrete) | 120.00 | .... | 150.00 | .... | 100.00 |
| Extended totals | $13,960 | .... | $14,320 | .... | $15,326 |
| Concrete | | | | | |
| 865 lin.ft. 33-in. concrete sewer | $5.20 | .... | .... | .... | $6.03 |
| 1140 lin.ft. 42-in. concrete sewer | 7.80 | .... | .... | .... | 8.49 |
| 8 manholes (standard) on concrete sewers, 4 ft. diameter or less | 75.00 | .... | .... | .... | 75.00 |
| 1 junction chamber (brick or concrete) | 120.00 | .... | .... | .... | 100.00 |
| Extended totals | $13,960 | .... | .... | .... | $15,316 |
| Reinforced Concrete Pipe | | | | | |
| 865 lin.ft. 33-in. reinforced concrete pipe sewer, complete | $5.20 | $7.30 | .... | .... | .... |
| 1140 lin.ft. 42-in. reinforced concrete pipe sewer, complete | 7.80 | 9.55 | .... | .... | .... |
| 6 manholes (standard) on reinforced concrete sewer, 4 ft. diameter or less | 75.00 | 60.00 | .... | .... | .... |
| 1 junction chamber (brick or concrete) | 120.00 | 100.00 | .... | .... | .... |
| Extended totals | $13,960 | $17,661 | .... | .... | .... |
| Segmental Block | | | | | |
| 865 lin.ft. 33-in. segmental block sewer, complete | $5.20 | $7.30 | $4.00 | $5.00 | $5.25 |
| 1140 lin.ft. 42-in. segmental block sewer, complete | 7.80 | 9.55 | 9.00 | 7.50 | 7.50 |
| 6 manholes (standard) on segmental block sewer, 4 ft. diameter, or less | 75.00 | 60.00 | 75.00 | 75.00 | 75.00 |
| 1 junction chamber (brick or concrete) | 120.00 | 100.00 | 150.00 | 125.00 | 100.00 |
| Extended totals | $13,960 | $17,661 | $14,320 | $13,450 | $13,641 |
| Vitrified Pipe and Miscellaneous Quantities | A | B | C | D | E |
| 7940 lin.ft. 12-in. vitrified pipe sewer | $2.00 | $1.50 | $1.75 | $2.00 | $1.75 |
| 2900 lin.ft. 15-in. vitrified pipe sewer | 2.60 | 1.75 | 2.60 | 2.50 | 2.00 |
| 1480 lin.ft. 18-in. vitrified pipe sewer | 2.85 | 1.90 | 2.80 | 2.75 | 2.40 |
| 1540 lin.ft. 22-in. vitrified pipe sewer | 4.10 | 2.65 | 3.50 | 3.40 | 3.10 |
| 1480 lin.ft. 24-in. vitrified pipe sewer | 3.70 | 3.00 | 3.50 | 3.40 | 3.40 |
| 470 lin.ft. 27-in. vitrified pipe sewer | 5.10 | 6.00 | 5.00 | 6.00 | 4.30 |
| 600 T-branches on 12-in. pipe sewer | 0.80 | 0.50 | 0.50 | 0.70 | 0.55 |
| 200 T-branches on 15-in. pipe sewer | 1.00 | 0.65 | 0.75 | 1.00 | 0.80 |
| 100 T-branches on 18-in. pipe sewer | 1.45 | 1.00 | 1.00 | 1.25 | 1.22 |
| 100 T-branches on 22-in. pipe sewer | 2.20 | 1.70 | 2.00 | 1.70 | 2.10 |
| 90 T-branches on 24-in. pipe sewer | 4.00 | 2.00 | 2.50 | 1.80 | 2.35 |
| 30 T-branches on 27-in. pipe sewer | 5.00 | 4.50 | 3.50 | 5.00 | 5.30 |
| 425 lin.ft. 6-in. vitrified pipe | 0.25 | 0.15 | 0.20 | 0.25 | 0.30 |
| 55 6-in. vitrified bends for chimney extension | 0.40 | 0.25 | 0.30 | 0.30 | 0.30 |
| 1300 lin.ft. 12-in. vitrified pipe inlet connections | 1.50 | 1.00 | 1.00 | 1.00 | 2.00 |
| 50 lin.ft. 15-in. vitrified pipe inlet connections | 1.50 | 1.25 | 1.00 | 1.00 | 2.35 |
| 95 manholes (standard) on pipe sewer | 60.00 | 55.00 | 55.00 | 55.00 | 75.00 |
| Manhole, drop (lump sum) | 130.00 | 100.00 | 100.00 | 100.00 | 90.00 |
| 100 6-in. stubs in trunk sewer | 0.35 | 0.20 | 0.20 | 0.40 | 0.20 |
| 1 12-in. stub in trunk sewer | 1.00 | 0.75 | 0.75 | 1.00 | 0.30 |
| 1 12-in. slant in trunk sewer | 1.00 | 0.75 | 0.75 | 1.00 | 0.80 |
| 1 15-in. slant in trunk sewer | 1.50 | 1.00 | 0.75 | 1.00 | 1.75 |
| 18 street inlets, plan 1 | 50.00 | 45.00 | 40.00 | 40.00 | 50.00 |
| 2 street inlets, plan 3 | 60.00 | 55.00 | 50.00 | 50.00 | 80.00 |
| 4 street inlets, type B | 40.00 | 35.00 | 30.00 | 40.00 | 30.00 |
| 10 cu.yd. concrete masonry, class 2 (headwalls) | 10.00 | 8.00 | 5.00 | 8.00 | 11.00 |
| 12 cu.yd. concrete masonry, class 2 (soft ground foundations) | 8.00 | 6.00 | 5.00 | 0.02 | 11.00 |
| 40 cu.yd. concrete masonry, class 3 (chimney extensions) | 8.00 | 6.00 | 10.00 | 7.00 | 10.00 |
| 100 cu.yd. masonry concrete, class 3 (Haunch walls, etc.) | 7.00 | 6.00 | 7.00 | 7.00 | 10.00 |
| 1 cu.yd. brick masonry | 13.00 | 12.00 | 0.02 | 9.00 | 20.00 |
| 500 lin.ft. 8-in. underdrain | 0.50 | 0.10 | 0.02 | 0.02 | 0.40 |
| 10 cu.yd. gravel refill | 2.00 | 1.75 | 0.02 | 0.02 | 3.00 |
| 36 lin.ft. 24-in. c.i. pipe sewer | 15.00 | 15.00 | 12.00 | 12.00 | 5.00 |
| 50 sq.yd. rip-rap | 2.00 | 2.00 | 1.50 | 2.00 | 1.50 |
| 100 cu.yd. special excavation | 0.50 | 0.01 | 0.50 | 0.50 | 2.50 |
| 7 street inlets, type C | 15.00 | 12.00 | 12.00 | 20.00 | 20.00 |
| 3 street inlets, type D | 20.00 | 15.00 | 18.00 | 20.00 | 30.00 |
| 100 lb. w.i. for screens | 0.10 | 0.10 | 0.06 | 0.10 | 0.10 |
| 425 lb. c.i. grating | 0.10 | 0.10 | 0.06 | 0.04 | 0.05 |
| Extended totals | $54,988 | $41,894 | $49,264 | $51,224 | $50,351 |

**San Bernardino, Calif.**—(Official)—Bids will be received about Sept. 15 for the construction of a group of buildings for the new county hospital. Lyman Farwell, Story Bldg., Los Angeles, is Arch. Noted Mar. 11 and July 15.

**Toronto, Ont.**—E. M. Statler, Detroit, Mich., plans to construct a hotel containing 1000 rooms at Toronto. The estimated cost is $2,000,000.

## CATALOG NOTICES

The International Nickel Co., 43 Exchange Pl., New York. Catalog. Monel metal. 12 pp., 4x8½ in.

Ingersoll-Rand Co., 11 Broadway, New York. Form No. 3031. Ingersoll-Rogler Class FR-1 air compressors. Illustrated, 24 pp., 6x9 in. Form No. 4034. Leyner-Ingersoll water drill. Illustrated, 4 pp., 6x9 in.

Chicago Pneumatic Tool Co., Fisher Bldg., Chicago, Ill. Bulletin No. 34-X. Class A-G "Giant" gas and gasoline engines. Illustrated, 8 pp., 6x9 in.

The Locomobile Co. of America, Bridgeport, Conn. Catalog. Locomobile worm drive motor trucks. Illustrated, 42 pp., 8½x11 in.

Austin-Western Road Machinery Co., Chicago, Ill. Catalog. Grading, rock crushing and road surfacing equipment. Illustrated, 66 pp., 7x10 in.

I. P. Morris Co., Beach and Ball St., Philadelphia, Penn. Bulletin No. 4. Hydraulic turbines. Illustrated, 70 pp., 8½x10½ in.

A. S. Cameron Steam Pump Works, 11 Broadway, New York. Bulletin No. 104. Station and sinking pumps. Illustrated, 36 pp., 6x9 in. Bulletin No. 150. Double suction volute centrifugal pumps. Illustrated, 16 pp., 6x9 in. Bulletin No. 151. Turbine centrifugal pumps. Illustrated, 20 pp., 6x9 in. Bulletin No. 152. Single suction volute centrifugal pumps. Illustrated, 8 pp., 6x9 in. Bulletin No. 153. Centrifugal pumps for house service. Illustrated, 8 pp., 6x9 in. Bulletin No. 300. Triplex pumps. Illustrated, 4 pp., 6x9 in.

Automatic Concrete Mixer Co., Providence, R. I. Catalog. Concrete mixers—Hains-Weaver Patents. Illustrated, 32 pp., 6x9 in.

Continuous Wire Wound Pipe Co., Flood Bldg., Los Angeles, Calif. Catalog. Continuous wire wound wood stave pipe. Illustrated, 16 pp., 4x9 in.

General Electric Co., Schenectady, N. Y. Bulletin No. 42,-552. Motor generator sets. Illustrated, 28 pp., 8x10½ in.

The Esterline Co., Indianapolis, Ind. Catalog No. 364. Golden Glow incandescent headlights for railway, mine and industrial service. Illustrated, 32 pp., 6x9 in.

Bausch & Lomb Optical Co., Rochester, N. Y. Catalog. Optical instruments for inspection and testing of materials. Illustrated, 36 pp., 6½x9½ in.

The Titanium Alloy Mfg. Co., Niagara Falls, N. Y. Booklet. Titanium aluminum and other standard bronze castings. Illustrated, 32 pp., 3½x8½ in.

W. N. Best, 11 Broadway, New York. Catalog. Oil and tar burning apparatus for marine, locomotive and stationary boilers. Illustrated, 32 pp., 6x9 in.

R. & J. Dick, Ltd., Passaic, N. J. Catalog. Balata belting. Illustrated, 20 pp., 3½x6 in.

The Brown Hoisting Machine Co., Cleveland, Ohio. Bulletin. Brownhoist Schnable patent drag-line bucket. Illustrated, 12 pp., 6x9 in.

The Gardner Governor Co., Quincy, Ill. Circular A-C 12. Air lift pumping system. Illustrated, 16 pp., 6x9 in.

Wallace & Tiernan Co., Inc., 136 Liberty St., New York. Catalog. Chlorine control apparatus for water and sewage purification. Illustrated, 36 pp., 9x12 in.

The Blackmer Rotary Pump Co., Petoskey, Mich. Catalog. Rotary pumps. Illustrated, 32 pp., 6x9 in.

Pneumercator Co., 118 Liberty St., New York. Catalog. The pneumercator. Instrument for weighing, registering and measuring forward and aft draft of vessels, tonnage displacement, bunker weights and consumption, etc., also depth and volume of liquids and semi-liquids. Illustrated, 6x9 in.

Orenstein-Arthur Koppel Co., Koppel, Penn. Catalog No. 911. Koppel hauling equipment for road construction. Illustrated, 28 pp., 6x9 in.

Stone & Webster Engineering Corporation, Boston, Mass. Catalog. Building construction. Illustrated, 30 pp., 6x7½ in.

Trussed Concrete Steel Co., Youngstown, Ohio. Seventh Edition, United Steel Sash Book. Illustrated, 128 pp., 8½x11 in.

Richard E. Barry Co., Boston, Mass. Catalog. Barry system fireproof floor and roof construction. Illustrated, 12 pp., 7x9 in.

Chicago Pneumatic Tool Co., 1010 Fisher Bldg., Chicago, Ill. Bulletin E-36. Duntley electric grinders. Illustrated, 8 pp., 6x9 in.

Pittsburgh Air Brake Co., 309 Carson St., Pittsburgh, Penn. Pamphlet. Snyder "No-Kicker" attachment as applied to automatic tiple valves. Illustrated, 30 pp., 4½x6½ in. Pamphlet. "Something New In Air Brakes." Address by J. Ruch Snyder at Air Brake Association Convention. Illustrated, 32 pp., 8x10½ in.

**Joseph E. Love,** formerly Structural Engineer for the Electrification Department of the Chicago, Milwaukee & St. Paul Ry. at Butte, Mont., has been appointed Engineer for the Board of Railroad Commissioners of South Dakota.

**Albrecht Excavator and Loader**—The T. L. Smith Co., Milwaukee, Wis., has recently announced that it has purchased from J. H. Albrecht the exclusive manufacturings and selling rights for his excavator and loader. This means that one of the best known crusher and mixer concerns has entered the excavator field. While a number of the Albrecht machines have been in successful use, lack of capital has limited its commercial development. The machine occupies a field about half way between hand digging and steam-shovel excavation.

## CALUMET INTERCEPTING SEWER, CHICAGO, ILL.

### Contract No. 2.

Bids were received June 24 for the construction of the Calumet Intercepting Sewer, Contract No. 2, from (A) Byrne Bros. Dredging & Engineering Co., (B) Marquette Construction Co., (C) John W. Farley, (D) Nash Bros., (E) Nash-Dowdle Co., (F) Henry C. Ulen. The item bids were as follows:

| | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 4370 lin.ft. sewer, 11 ft. concrete | $34.50 | $45.00 | $48.00 | $48.40 | $35.90 | $39.00 |
| 7 manholes on concrete sewer | 50.00 | 30.00 | 40.00 | 40.00 | 40.00 | 29.00 |
| 3200 lin.ft. sewer, 12-in. vitrified tile pipe | 1.00 | 1.50 | 1.50 | 2.00 | 1.50 | 1.50 |
| 350 lin.ft. sewer, 9-in. vitrified tile pipe | 1.00 | 1.00 | 1.00 | 0.50 | 1.00 | 1.00 |
| 32 manholes on tile sewer, without covers | 30.00 | 25.00 | 30.00 | 35.00 | 35.00 | 54.00 |
| 15 standard c.i. manhole cover and frame | 10.00 | 9.00 | 7.50 | 8.00 | 8.50 | 13.00 |
| Rebuilding existing sewer at 97th St. and Houston Ave. (lump sum) | 1000.00 | 1700.00 | 3500.00 | 3400.00 | 500.00 | 5200.00 |
| Crossing Commercial Ave. at 97th St. (lump sum) | 1400.00 | 1200.00 | 10,000 | 2500.00 | 350.00 | 2800.00 |
| Crossing C. & W. I. R.R. and C.R.I. & P.R.R. tracks (lump sum) | 1500.00 | 1500.00 | 10,000 | 4500.00 | 3000.00 | 2400.00 |
| 88 M ft. b.m. plank road along Torrence Ave. | 40.00 | 25.00 | 35.00 | 35.00 | 40.00 | 34.00 |
| 1700 lin.ft. relaying water service pipes | 1.00 | .50 | 1.90 | .60 | 2.00 | .70 |
| 140 lin.ft. relaying 6-in. sewer house connections | .50 | .50 | 1.00 | .60 | 1.00 | .70 |
| 1,200,000 lb. reinforcing steel | .02½ | .03 | .05 | .02½ | .02½ | .03½ |
| 500 lin.ft. additional piling furnished | .20 | .20 | .15 | .30 | .25 | .35 |
| 500 lin.ft. additional piling driven | .20 | .50 | 1.00 | .30 | .50 | .85 |
| 5 M. ft. b.m. cribwork on piling | 40.00 | 50.00 | 40.00 | 50.00 | 42.50 | 55.00 |
| 5 M. ft. b.m. plank foundations | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 |
| 5 cu.yd. additional excavation, earth | .75 | .75 | .75 | .75 | .75 | .75 |
| 1 cu.yd. additional excavation, rock | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
| 5 cu.yd. additional concrete, Class A | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 |
| 5 cu.yd. additional concrete, Class B | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 |
| 1 cu.yd. additional brickwork | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| Extended totals | $195,583 | $247,283 | $307,205 | $264,990 | $205,596 | $200,999 |

## CALUMET INTERCEPTING SEWER—CHICAGO, ILL.

### Contract No. 3

Bids were received June 24 for the construction of the Calumet Intercepting Sewer, Contract No. 3, from (A) Byrne Bros. Dredging & Engineering Co., (B) Marquette Construction Co., (C) John W. Farley, (D) Nash Bros., (E) Nash-Dowdle Co., (F) Henry C. Ulen. The item bids were as follows:

| | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 7700 lin.ft. concrete sewer, 13-ft. diameter | $40.25 | $46.00 | $44.40 | $55.50 | $42.25 | $40.00 |
| 12 manholes on concrete sewer | 50.00 | 31.00 | 40.00 | 40.00 | 40.00 | 30.00 |
| Connection at 100th St. (lump sum) | 500.00 | 900.00 | 300.00 | 300.00 | 300.00 | 2340.00 |
| Crossing under C. & W. I. R.R. and N.Y.C. & St. L. R.R. (lump sum) | 2000.00 | 4000.00 | 2000.00 | 4000.00 | 3600.00 | 5500.00 |
| 35 M. ft. b.m. plank Roadway on Torrence Ave. | 40.00 | 25.00 | 35.00 | 35.00 | 40.0 | 34.00 |
| 684,000 lb. reinforcing steel | .02½ | .03 | .05 | .02½ | .02½ | .03½ |
| 37 tile pipe future connections, 18-in. | 2.00 | 5.00 | 5.00 | 15.00 | 3.00 | 14.00 |
| 5 tile pipe future connections, 24-in. | 3.50 | 6.00 | 5.00 | 25.00 | 4.00 | 14.00 |
| 5 cu.yd. additional excavation, earth | .75 | .75 | .75 | .75 | .75 | .75 |
| 5 cu.yd. additional excavation, rock | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
| 5 cu.yd. additional concrete, Class A | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 |
| 5 cu.yd. additional concrete, Class B | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 |
| 5 cu.yd. additional brickwork | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| 5 M ft. b.m. plank foundations | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 |
| Extended totals | $331,882 | $381,348 | $380,561 | $451,401 | $348,602 | $342,184 |

**Oil Burning Locomotives**—Morley Donaldson, Vice-Pres. of the Grand Trunk Pacific Ry., announces that the installation of oil-burning locomotives on the mountain section of the line has now been completed. These locomotives are of the most modern type, and were placed in service for passenger traffic for the first time today. They are in operation from Jasper to Prince Rupert, over 719 miles of main line. Especial interest attaches to the installation of this class of motive power, as it marks the first use of oil burners on an extensive scale in Canada. Great oil storage tanks have been erected at various points along the line for supplying locomotives with the necessary fuel. The Grand Trunk Pacific steamships Prince George and Prince Rupert, which operate from the Pacific terminal of the line at Prince Rupert to Victoria, Vancouver and Seattle, are also oil burners, and this gives the Grand Trunk Pacific nearly 1500 miles of rail and water route on which this form of fuel only is used.

## EXPANSION AT STEEL MILLS

A recent report from the Youngstown district states that since the first of the year steel mills there have appropriated fully $12,000,000 for extensions and new construction. The Youngstown Sheet & Tube Co. is spending $5,000,000 for a new plant, the Republic Iron & Steel Co. has authorized the construction of new furnaces and tube mills costing $1,000,000, thus swelling this company's expenditures for development up to $3,500,000. The Youngstown Iron & Steel Co. has improvements costing $750,000 under way, the Brier Hill Steel Co. is spending $250,000, while the Trumbull Steel Co. has an extension in course of construction costing $500,000. Steel authorities assert that no other single year in the history of the Youngstown district has seen such large expenditures for new plants and additions for the production of steel and iron.

The expansion in the Youngstown district is not an isolated incident, by any means. Reports from Pittsburgh, the Middle West and the South bear indications of new construction for steel and iron plants tending to prove that expansion on a large scale is general in all the steel and iron districts of the country.

The question naturally arises as to whether or not this development of the iron and steel industry is on a scale that may, after the conclusion of hostilities and at the same time the abnormal demand for steel and iron, result in a reaction so pronounced as to largely counteract the gains derived from the war. Some manufacturers pointed out that while the volume of expansion this year is greater than the normal in 1914 the amount expended for new construction was well below the average, so that this year's investment instead of being in the nature of a too rapid advance makes up more or less for the lethargy that pervaded the steel industry last year, causing suspension of development. But on the other hand, some of the steel manufacturers who look forward to a marked reaction after the conclusion of the war openly state that conservatism should pervade the steel industry at this time and that too rapid expansion may make the burden to be carried after peace is declared all the more great.

Each day brings new reports of the increased demand for steel. Mills are enjoying production at the rate of fully 85% of capacity and further increases are regarded as a certainty. A few incidents that can be regarded as pointers may be cited. The open hearth steel capacity is, with a few exceptions, in full operation. The purchase of pig iron by the Republic Iron & Steel Co., which normally produces enough pig iron for its requirements, the buying of billets by the United States Steel Corporation, estimated at 70,000 tons, all strikingly tell of the period of prosperity that today obtains in the steel trade. New war orders for shells, rails, cars, etc., have been noted during the past fortnight and inquiries are in the market that portend further active buying of shells by Russia. Italy and Australia have been in the market for rails and this business, amounting to over 30,000 tons may soon be closed.

War business, which for a considerable time furnished the greatest impetus for the steel trade, is finding a strong competitor at the present time in domestic business. The advances in the prices of structural steel, bars, shapes and plates have forced steel consumers to enter the market for requirements that they would not have purchased until this winter. Although the new price of $1.30 is not being firmly maintained, the advance from $1.25 has placed a large volume of domestic business on the books of the steel companies. The latest report of the fabricating association shows that bookings in June reached 80% of capacity against an average of 62½% in the preceding three months. Thus June has been the best month since April, 1914. The city of New York is to be a large purchaser of steel in the next fortnight. The awarding of the 37,000 tons rail contract to the Bethlehem Steel Products Co. by the Public Service Commission is but a forerunner of the steel orders to be placed on the market by that board. Five important subway contracts are to be awarded shortly and the steel involved amounts to over 25,000 tons. Railroad buying shows a marked tendency to improve. The recent inquiries for automobile cars are to be followed, if reports are correct, by fairly large buying of ordinary freight cars by some large Eastern roads.

**Progress on New York Subway Work**—Bids were opened July 27 by the Public Service Commission for the construction of two sections on two of the most important lines of the dual system in Manhattan and Brooklyn, namely, one section of the Broadway subway in Manhattan and one section of the Eastern Parkway subway in Brooklyn. In addition the Commission opened bids for the supply of rolled manganese rails, for use on all lines of the dual system not already provided for.

The contract for the Broadway subway is for Section 3 of Routes 4 and 36. This section begins at 38th St. and runs north under Broadway to 42d St., where it crosses under the line of the existing subway and continues north through Seventh Ave. to 51st St. The plans call for a four-track railroad, with an express station at 42d St. and a local station at 49th St. The Broadway subway is to be operated by the New York Cosolidated R.R. Co. under the contract between the city and the New York Municipal Ry. Corporation. It runs from the lower part of Manhattan Island to 59th St. and through 59th and 60th St. to the East River, which it will cross probably by tunnels to a connection with the new rapid transit lines in Queens over which the Brooklyn company will have trackage rights. On the southern end it will be connected through Canal St. and the Manhattan Bridge with the Fourth Ave. subway in Brooklyn, and also with the same subway by a new tunnel from Whitehall St., Manhattan, to Montague St., Brooklyn. It is a four-track line from City Hall to 59th St. All other sections on this subway in Manhattan are already under contract. The Eastern Parkway contract is for Section 3 of Route 12, which runs under Eastern Parkway, Brooklyn, from Nostrand Ave. to Buffalo Ave. The contract calls for a four-track railroad, with stations at Kingston Ave. and Utica Ave., the latter an express station. The method of construction will be by open trench excavation except at cross streets, where it will be under cover. The Eastern Parkway subway is for operation by the Interborough Rapid Transit Co. as an extension of the existing subway. It runs from the terminus of the present subway at Atlantic and Flatbush Ave., Brooklyn, under Flatbush Ave. and Eastern Parkway to Buffalo Ave., beyond which point there will be an elevated extension through East 98th St. and Livonia Ave. to New Lots Rd. With the exception of the work under the Long Island R.R. station at the present subway terminus all other underground work on the Eastern Parkway line is under contract. It will have a two-track branch subway down Nostrand Ave. to Flatbush Ave. One section of this line is already under contract, and bids for the other section will be opened this week.

The contract for manganese rails is for the supply of about 2200 tons to 3000 tons of standard and short lengths, and the bidder was required to bid upon the time of delivery. These rails will be used upon about 230 miles of single track of the new subway and elevated lines to be owned by the city. The city has already purchased the main open hearth steel rails for such lines. Under today's bidding the successful contractor must have the first lot ready for delivery within 60 days from the delivery of the contract and the remainder as called for. Each proposal was accompanied by a certified check for $25,000. The bond for the faithful performance of the contract is fixed at $25,000.

**Expanding Foreign Trade**—Exports to Germany during April were zero, according to an analysis of the foreign trade issued by the Department of Commerce Monday. During April last year, however, the exports to Germany amounted to more than $18,000,000. The exports to the United Kingdom, however, amounted to more than $94,000,000 during April, an increase of more than $57,000,000. The exports to Austria-Hungary, the Department reports amounted to but $1249 in April, whereas it was nearly $2,000,000 in April, 1914. The loss in trade with Germany and Austria has been more than made up in the increase in trade with the Allies. This is the first time since the outbreak of war that the Department has reported, however, that the United States shipped not a cent's worth to Germany. The imports from Germany during April amounted to $2,600,000, a reduction of nearly $14,000,000 for the month. The imports from Germany ending with April amounted to $86,000,000, just a little over one-half what they were during the same ten months last year. The exports to Germany during the ten months have amounted to nearly $29,000,000, a reduction of about $280,000,000.

During April the United States shipped to France, $51,000,000 worth of merchandise, an increase of $43,000,000; to Italy, $19,000,000 worth, an increase of $14,000,000; to the Netherlands, $20,000,000, an increase of $11,000,000; to Norway, $3,500,000, an increase of $2,800,000; to Russia in Europe $4,800,000, an increase of $2,000,000, and to Sweden $5,900,000, an increase of $4,800,000. Italy is the only European country from which the United States has obtained an increased volume of imports during April. The imports from Italy amounted to $6,600,000, an increase of $1,600,000. There was an increase of about $10,500,000 in the imports from Cuba, an increase of $3,000,000 in the imports from Argentina; an increase of $2,000,000 in the imports from Brazil; an increase of about $1,000,000 in the imports from Japan, and an increase of $1,800,000 in the imports from Australia. The total exports from the United States in April amounted to $294,746,117, against $162,550,870 in April, 1914, while total imports were $610,576,106, compared with $173,896,476 a year ago. For the ten months' period ended with April, exports were $2,225,823,986, against $2,045,772,785 in the same period a year ago. Imports for the ten months' period were $1,374,189,749, against $1,572,438,054 a year ago.

An analysis of the tabulated report for ten months shows that despite the so-called war orders the exports of manufactures of all kinds other than foodstuffs have been less than in the similar period before the war. The normal sales of manufactures during peace were greater than those under existing war conditions. Because of this fact and of the extraordinary shrinkage of exports of crude materials it is found that the net increase in our total exports has been wholly in foodstuffs and in that item of foodstuffs which covers those in crude condition and food animals.

On the import side it is noteworthy that there has been an absolute increase in the ten months of importations of foodstuffs partly or wholly manufactured. The larger part of the total shrinkage of total imports has been in the items of manufactures and particularly in that of manufactures ready for consumption.

**An Arbitrary Reduction of a Contract Price** by a Government officer was overruled by the Comptroller of the Treasury in a decision rendered June 18 on the claim of W. R. Grace & Co. According to the recital of facts in the Comptroller's decision, W. R. Grace & Co. in May, 1913, contracted to deliver on the Isthmus of Panama some 635,000 ft. of creosoted Douglas fir for $53.70 per M. ft. The timber was to be treated with not less than 16 lb. of dead oil per cubic foot was to receive a preliminary inspection at the creosoting works and at the loading dock on Puget Sound, and final acceptance was to be made after delivery on the Isthmus. On the first shipload sent by this contractor, the Government representatives failed to make any accurate test to determine whether the timber had received the proper amount of creosote. It was, however, inspected by the depot quartermaster as delivered, and was paid for under his certificate. On the second shipment sent by the contractor, including much the larger part of the order, the Bogardus Testing Laboratories were employed by the Government to inspect the work. They reported creosoting in excess of the contract requirements. In the use of the first shipload delivered, however, the engineer in charge thought he detected insufficient creosoting. After weighing nine pieces of untreated and eight pieces of treated lumber, and finding the average weight of the treated was 45.9 lb. against 38.8 lb. per cu.ft. for the uncreosoted, he reported that the timber had not been properly creosoted. Similar tests were made by two other engineers, one of whom recommended a reduction of $15 per M-ft. in the price to be paid for the lumber, and another $10 per M. The chief quarter-master, after studying the reports of the two engineers, fixed upon a reduction of $18.12 per M. The Comptroller of the Treasury concludes that the tests made by the engineers on the Isthmus were unreliable as proof that the creosoting was actually deficient, and that the Government representatives had no right to arbitrarily reduce a contractor's price on the basis of these tests. R. D. Micou, of Washington, acted as attorney for the claimant in the prosecution of the case before the Comptroller.